

THE UNIVERSITY OF KANSAS SCIENCE BULLETIN

VOL. XXXI, pt. II.]

NOVEMBER 1, 1947

[No. 17

A Bibliography of Mexican Amphibiology

By EDWARD H. TAYLOR

NO COMPREHENSIVE bibliography dealing with the amphibiology of Mexico has ever been published. The present wide interest in this subject practically demands that such a publication be made available to the numerous workers in this new field. For the past 15 years during my extensive work on Mexican faunas I have been collecting literature dealing with this particular subject, and the following annotated list of titles dealing with the amphibiology of Mexico is offered to fill this need. It is as complete as I have been able to make it for taxonomic works, but I feel that further research might reveal other titles of significance dealing with anatomy and physiology of Mexican species.

It is possible that some of the titles listed, purporting to treat of the "Mexican axolotl," may actually not do so. However, in most cases the authors believed that the European bred stock of the *axolotl* was from species originating in Mexico. Certain of these papers have not been read by me.

About fifty of the titles were added by Dr. Hobart M. Smith who had the kindness to read the manuscript and check the reference. He has my heartfelt gratitude.

ACKERMANN, J.

1933. Ueber die Innervierung der Haut des Axolotls (*Ambystoma mexicanum*). Bull. Acad. Polonaise Sci. (Sect. B), 1933, No. 2, pp. 1-12, pl. 1.

AHL, ERNST.

1927. Ueber neue oder seltene Froschlurche aus dem Zoologischen Museum Berlin. Sitz. Ges. nat. Freunde, 1926 (May 1, 1927), pp. 111-117.

Type description of *Bufo eiteli*.

1932. Neu oder selten eingeführte Fische, Lurche und Kriechtiere. Das Aquarium, Jan., 1932, pp. 1-4, ill.

Rhinophrynus dorsalis discussed and figured.

1934. Ueber eine Sammlung von Reptilien und Amphibien aus Mexiko. Zool. Anz., 106, No. 7-8, Apr. 15, 1934, pp. 184-186, text fig. 1.

Type description of *Hyla leonhard-schultzei* and notes on other species.

ALLEN, MORROW J.

1933. Report on a collection of amphibians and reptiles from Sonora, México with the description of a new lizard. Occ. Papers Mus. Zool., Univ. Michigan, No. 259, Apr. 3, 1933, pp. 1-15.

Lists *Scaphiopus couchii*, *Bufo alvarius*, *Pterohyla fodiens*, *Gastrophryne texensis*.

ANONYMOUS.

1865. Reproduction of the Axolotl. Nat. Hist. Rev., 1865, pp. 454-455.
1866. Nyere Jagtagelser om Axolotlen (Med traesnit.) Tidskr. pop. Fremstill. af Naturvidensk. 3 R., 3, 1866, pp. 325-330.
1870. Kunstliche Bildung einer weissen Rasse u. Metamorphose des Axolotl. (auszug.) Naturforscher (Sklarek), 3, 1870, p. 196. (Fide Duméril, in Compt. Rend., 70, 1870, p. 782.)
- 1876a. Az Axolotl atvaltozasarol amblystomava. Term. Tud. Közl. 8 Köt, 1876, pp. 439-440 (See Weismann, Zeit. Wiss. Zoll. 25, Suppl.)
- 1876b. Fortpflanzung des Amblystoma (Übersetzung). Naturforscher (Sklarek), 9, 1876, pp. 215-216. (See Blanchard, in Compt. Rend., 82, 1876, p. 716.)
- 1876c. Eine neue Deutung des Axolotl (auszug). Naturforscher (Sklarek), 9, 1876, pp. 114-115.
1877. Reproduction des Axolotls transformées en Amblystomes. Journ. Zool. (Gervais), 6, 1877, pp. 152-153.
1879. Zur Metamorphose des Axolotl. Gäa., 15, 1879, pp. 186-187.

ATKINSON, D. A.

1907. Notes on a collection of batrachians and reptiles from Central America. Ohio Naturalist, 7, May 1907, pp. 151-157.
- Hyla tachiopus* listed from Morales, Guatemala. Probably erroneously identified.

BAIRD, SPENCER F.

1849. Revision of the North American tailed-batrachia, with descriptions of new genera and species. Journ. Acad. Nat. Sci. Philadelphia, (2), 1, 1849, pp. 281-294.
- Type description of *Amblystoma mavortia*.
1854. Descriptions of new genera and species of North American frogs. Proc. Acad. Nat. Sci. Philadelphia, 7, 1854-1855 (April, 1854), pp. 59-62.
- Contains the type descriptions of *Hyla eximia*, *Hyla varvictii*, *Hyla affinis*, *Rana montezumae*, and *Scaphiopus couchii*.
1859. Reptiles of the boundary. (In) United States and Mexican boundary survey under the order of Lieut. Col. W. H. Emory, 1859, 2, Reptiles, pp. 1-35, pls. 1-41.
- The "type description" of *Batrachyla longipes* consists of 1-3 on plate 37. *Bufo alvarius* is described by Girard from the "Valley of the Gila and Colorado."

BAIRD, SPENCER F., and GIRARD, CHARLES.

1852. Characteristics of some new reptiles in the museum of the Smithsonian Institution. Proc. Acad. Nat. Sci. Philadelphia, 6, 1852-1853 (Oct., 1852), p. 173.
- Type descriptions of *Amblystoma proserpine*, *Bufo punctatus*, *Rana arcolata*, and *Bufo granulatus*, all from Texas.

BARBOUR, THOMAS.

1922. Three new neotropical Salientia. Proc. Biol. Soc. Washington, 35, Oct. 17, 1922, pp. 111-114.

Eleutherodactylus dunnii and *Syrhropus* (sic) *mystaceus* are described.

1923. The reappearance of *Batrachyla longipes*. Proc. New England Zool. Club, 8, June 5, 1923, pp. 81-83.

Reports a specimen of *Eleutherodactylus* (sic) *longipes* (= *Eleutherodactylus batrachylus* Taylor).

1926. Reptiles and amphibians. Houghton Mifflin Company, Boston and New York, 1926, pp. xxii + 125.

The axolotl figured, p. 99.

1927. *Cauphias* rediscovered. Copeia 1927, No. 165, pp. 96-98.

BARBOUR, THOMAS, and COLE, LEON J.

1906. Reptilia, Amphibia, and Pisces. (In) Vertebrata from Yucatán. Bull. Mus. Comp. Zool., 50, No. 5 (part.), 1906-1907 (Nov. 1906), pp. 146-155.

The following specimens are reported: *Rana virescens areolata*, *Bufo valliceps*, *Bufo marinus*, *Hyla phlebodes*, *Hyla baudinii*, *Tripriorion petasatus* and *Spelerpes yucatanus*.

BARBOUR, THOMAS, and LOVERIDGE, ARTHUR.

1929. Typical reptiles and amphibians. Bull. Mus. Comp. Zool., 69, No. 10, June 1929, pp. 205-360.

Lists a few specimens from México.

BARNES, D. H.

1826. An arrangement of the genera of batracian animals, with a description of the more remarkable species. Amer. Journ. Sci. Arts (Sillimans Journal), (1), 11, Oct. 1826, pp. 268-297.

Proteus mexicanus is discussed and its synonyms given.

BEDRIAGA, JACQUES V.

1877. Bemerkungen über die Umwandlung des Axolotl in ein Amblystoma. Zool. Garten, 18, 1877, pp. 132-133.

BELDING, L.

- 1887a. Collecting in the cape region of Lower California. The West American Scientist, 3, No. 24, Apr. 1887, pp. 93-97.

Mentions discovery of a new toad (*Bufo beldingi*).

- 1887b. Reptiles of the cape region of Lower California. *Ibid*, pp. 97-99.

List of five amphibians.

BELTRAN, ENRIQUE.

1941. Opalinidos parasitos en anfibios Mexicanos. Rev. Soc. Mex. Historia Natural, 2 (2 & 3), pp. 127-136, pl. 3.

BERT, PAUL.

1869. Ablation chez au Axolotl des branchies et des poumons. Compt. Rend. et Mém. Soc. Biol. Paris, (4) 5, 1868 (1869), C. R. pp. 21-22.

1880. (Influence des lésions du cerveau sur les appareils de coloration des axolotls). Compt. Rend. et Mém. Soc. Biol. Paris, (7), 1, 1879 (1880), C. R. p. 65.

BINDEWALD, CARL A. E.

1914. Das Vorderhirn von *Ambystoma mexicanum*. Arch für Mikr. Anat., 84, Abt. 1, pp. 1-74, 1 pl., text figs. A-B.

BLANCHARD, EMILE.

- 1876a. Reproduction of *Amblystoma*. Ann. Mag. Nat. Hist., (4), 17, 1876, pp. 414-415.
 1876b. Reproduction de l'*Amblystome*, observée au Muséum. Compt. Rend., 82, 1876, pp. 716-717.
 1879. Sur la ponte des *Amblystomes* au Muséum d'histoire naturelle. (Extr.) Rev. des Sciences, 4, 1879, p. 167.

BLANCHARD, RAPHAEL.

- 1882a. (Review of Velasco's study on the habits of the ajolote.) Rev. Sci., May 13, 1882, pp.
 1882b. (Review of Velasco's study.) La Naturaleza, 6, 1882, pp. 60-61.
 A translation of the preceding article.

BLATCHLEY, W. S.

1893. On a collection of batrachians and reptiles from Mount Orizaba, Mexico, with descriptions of two new species. Proc. U. S. Nat. Museum, 16, No. 922, 1893, pp. 37-42.
 Type descriptions of *Spelerpes orizabensis* and *Spelerpes gibbi-caudus* appear. Also records *Spelerpes bellii* (= *B. gadovii* Dunn), *Bufo intermedius*, *Hyla eximia* and *Hyla miotymanum*.

BLUM.

1880. Der mexikanische Kiemenmolch oder Axolotl (*Ambystoma mexicanum* Cope (*tigrinum*), seine Züchtung u. Pflege. Isis (Russian), 5, 1880, pp. 59-61, 67-68, 75-77.

BOETTGER, OSCAR.

1892. Katalog der Batrachier-Sammlung im Museum der Senckenbergischen Naturforschenden Gesellschaft in Frankfurt am Main. Frankfurt, 1892, pp. x + 73.
 Numerous Mexican species listed.
 1893. Ein neuer Laubfrosch aus Costa Rica. Bericht. Senck. Natur. Ges., 1892-1893 (1893), pp. 251-252.
Hyella fleischmanni described from San José, Costa Rica.

BOGDANOFF, N.

1873. (On the transformation of the axolotl) (In Russian) Trud. C. Peterb. ectect. 4, 1873, pp. lxxxiii-lxxxiv.

BOGERT, CHARLES M., and OLIVER, JAMES A.

1945. A preliminary analysis of the herpetofauna of Sonora. Bull. Amer. Mus. Nat. Hist., 83, (6), pp. 297-426, figs. 1-13, pls. 30-37, table 1, maps 1, 2.

BOULENGER, EDWARD G.

1913. Experiments on the metamorphosis of the Mexican axolotl (*Ambystoma tigrinum*), conducted in the society's garden. Proc. Zool. Soc. London, No. 28, May 20, 1913, pp. 403-413, text figs. 75-76.

BOULENGER, GEORGE ALBERT.

1881. *Leptodactylus caliginosus* Girard et L. albilabris Günther. Bull. Soc. Zool. France, 6, 1881, pp. 30-35.

- 1882a. Catalogue of the Batrachia Salientia s. Ecaudata in the collection of the British Museum, 2nd Ed., 1882, pp. xvi + 503, pls. 1-30.
Treats of the known fauna of this group, in México.
- 1882b. Catalogue of the Batrachia Gradianta s. Caudata and Batrachia Apoda in the collection of the British Museum. 2nd Ed., 1882, pp. viii + 127, pls. 1-9.
- 1882c. Description of a new genus and species of frogs of the family *Hylidae*. Ann. Mag. Nat. Hist., (5), 10, No. 58, Oct. 1882, pp. 326-328.
Genus *Pternohyla*, and *Pternohyla jodiens* are described. *Hyla venulosa* and *Hyla dacnicolor* are discussed.
- 1883a. Descriptions of new species of lizards and frogs collected by Herr A. Forrer in Mexico. Ann. Mag. Nat. Hist., (5), 11, 1883, pp. 342-344.
The following type descriptions are given: *Rana forreri*, *Rana pustulosa* and *Hypopachus oxyrrhinus*.
- 1883b. Notes on little-known species of frogs. Ann. Mag. Nat. Hist. (5), 11, 1883, pp. 17-20.
- 1883c. Reptilia and Batrachia. Zoological Record, 19, 1882, pp. 1-28.
States that *Spelerpes yucatanus* Peters and *Spelerpes yucatanicus* Boulenger are identical. "Peters' description appears to have a few days priority over the Recorder's," p. 26.
1884. Reptilia and Batrachia. Zoological Record, 20, 1883, pp. 1-24.
Refers *Bufo beldingi* to *Bufo punctatus*.
1887. Descriptions of new reptiles and batrachians in the British Museum (Nat. Hist.), Part III. Ann. Mag. Nat. Hist., (5), 20, No. 115, July 1887, pp. 50-53.
Describes *Hyla copii* from El Paso, Texas, on the Mexican border.
- 1888a. On a rare American newt, *Molge meridionalis* Cope. Ann. Mag. Nat. Hist., (6), 1, No. 1, Jan. 1888, p. 24.
- 1888b. Note on the classification of the Ranidae. Proc. Zool. Soc. London, pt. 2, Feb. 10, 1888, pp. 204-206.
Discusses the genus *Syrhropus* (sic), placing *Malachylodes* Cope and *Hypodiction* Cope in synonymy.
- 1888c. Descriptions of new Brazilian batrachians. Ann. Mag. Nat. Hist., (6), 1, No. 3, Mar. 1888, pp. 187-189.
Discusses the genus *Eupemphix* (= *Engystomops* [part.]), and refers the genus to the Bufonidae.
1891. Notes on American batrachians. Ann. Mag. Nat. Hist., (6), 8, No. 48, Dec. 1891, pp. 453-458.
Hylella sumichrasti. Notes that *Exerodonta Sumichrasti* Brocchi and *Hylella platycephala* Cope are synonyms, and that Brocchi's name is oldest.
- 1895a. A synopsis of the genera and species of apodal batrachians with description of a new genus and species *Bdellophis vittatus*. Proc. Zool. Soc. London, 1895, pp. 410-414, pls. 23-24.
- 1895b. Reptilia and Batrachia. Zoological Record, 31, 1894, pp. 1-44.
Regards *Hylella chrysops* Cope as a synonym of *Hylella fleischmanni* Boettger.
1898. Fourth report on additions to the batrachian collection of the Natural History Museum. Proc. Zool. Soc. London, June 7, 1898, pp. 473-482, pls. 38-39.
Type descriptions of *Hylodes alfredi* and *Borborocoetes mexicanus*. Figures of both are given.

1899. Descriptions of new batrachians in the collection of the British Museum (Natural History). *Ann. Mag. Nat. Hist.*, (7), 3, 1899, pp. 273-277, pls. 11, 12.
Proposes *Hyla underwoodi* *nom. nov.* for *Hyla microcephala* Boulenger (nec Cope).
1902. Reptilia and Batrachia. *Zoological Record*, 38, 1901, pp. 1-33.
Proposes *Hyla smithi* *nom. nov.* for *Hyla nana* Günther (nec *Hyla nana* Boulenger).
1903. Descriptions of new batrachians in the British Museum. *Ann. Mag. Nat. Hist.*, (7), 12, No. 71, Nov. 1903, pp. 552-557.
Type descriptions of *Eupemphix gadovii* and *Hylodes beatae* appear.
1910. Axolotl. In *Encycl. Brit.*, Ed. 11, 3, pp. 68-70.
Excellent historical discussion, with bibliography (not in later editions).
1917. Descriptions of new frogs of the genus *Rana*. *Ann. Mag. Nat. Hist.*, (8), 20, No. 120, Dec. 1917, pp. 413-418.
Describes *Rana tarahumarae* from Ioquiro and Barranca del Cobre, Sierra Tarahumara, N. W. México.
1919. Synopsis of the American species of *Rana*. *Ann. Mag. Nat. Hist.*, (9), 3, No. 16, Apr. 1919, pp. 408-419.
Rana montezumae, *Rana tarahumarae*, *Rana halecina* (includes *Rana forreri*), *Rana pustulosa*, *Rana palmipes*. He discusses Peters' genus *Ranula*.
1920. A monograph of the American frogs of the genus *Rana*. *Proc. Amer. Acad. Arts Sci.*, 55, No. 9, Aug. 1920, pp. 413-480.
Mexican forms treated here are: *Rana montezumae*, *Rana halecina*, *Rana draytonii*, *Rana tarahumarae*, *Rana pustulosa*, and *Rana palmipes*.
- BRAGG, ARTHUR N.
1941. Tadpoles of *Scaphiopus bombifrons* and *Scaphiopus hammondii*. *The Wasmann Collector*, 4, No. 3, Apr. 1941, pp. 92-94.
- BRAVO H., MARGARITA.
- 1943a. Dos nuevos nematodos parásitos de anuros del sur de Puebla. *Anal. Inst. Biol.*, 14, (1), pp. 69-78, pls. 1-3.
- 1943b. Estudio sistematico de los trematodos parásitos de los "ajolates" de México. *Anal. Inst. Biol.*, 14, (1), pp. 141-159, pls. 1-5.
- BRAVO, H., MARGARITA, and CABALLERO C., EDUARDO.
1940. Nematodos parásitos de los batracios de México. IV. *Anal. Inst. Biol. México*, 11, pp. 239-247, pls. 1-3.
Bufo marinus and *Rhyacosiredon altamirani* studied.
- BROCCHI, PAUL.
- 1877a. Sur le système nerveux de l'axolotl (*Siredon mexicanus*). *Bull. Soc. Philom. Paris*, (7), 1, 1876-1877 (1877), pp. 21-24.
- 1877b. Note sur les nerfs trijumeau et facial de l'axolotl. *Bull. Soc. Philom. Paris*, (7), 1, 1876-1877 (1877), pp. 59-61.
- 1877c. De l'absence du grand sympathique chez l'axolotl. *Bull. Soc. Philom. Paris*, (7), 1, 1876-1877 (1877), pp. 71-73.
- 1877d. Description d'un nouveau genre de Phaneroglosse Hylaeiforme (*Plectrohyla guatemalensis*). *Bull. Soc. Philom. Paris*, (7), 1, No. 2, 1876-1877 (1877), pp. 92-93.
Genus *Plectrohyla* described.

- 1877e. Note sur quelques batraciens hylaeiformes recueillis au Mexique et au Guatemala. Bull. Soc. Philom. Paris, (7), 1, No. 3, 1876-1877 (1877), pp. 122-132.

Hyla plicata, the genus *Cauphias*, and *Cauphias crassus* are described as new. *Hyla baudinii* and *Hyla eximia* are discussed.

- 1877f. Sur quelques Batraciens Raniformes et Bufoniformes de l'Amérique Centrale. Bull. Soc. Philom. Paris, 1876-1877 (1877), (7), 1, No. 4, pp. 175-197.

The following Mexican species are described: *Cystignathus fragilis*, *Leuiperus* (sic) *mexicanus*, *Bufo levifrons*, *Rhinophrynus rostratus*. The *Rana maculata* from "Totonicapam, Mexique" is probably from Guatemala.

1879. Sur divers Batraciens anoures de l'Amérique Centrale. Bull. Soc. Philom. Paris, (7), 3, No. 1, 1878-1879 (1879), pp. 19-24.

The type description of the following species appear: *Exerodonta Sumichrasti*, *Hyla paenulata* (from Guatemala), *Hylodes Augusti* Dugès, *Hylodes lineatus* ("Atitlan Mexique" but probably from Guatemala), *Scaphiopus dugesi* and *Bufo mexicanus*.

1881 to

1883. études des batraciens de l'Amérique Centrale (In) Mission Scientifique au Mexique et dans l'Amérique Centrale, Part 3, Sec. 2, 1881-1883, pp. 1-122, pls. 1-21. Issued as follows: Livr. 1, 1881, pp. 1-56, pls. 1-5, 9, 10. Livr. 2, 1882, pp. 57-96, pls. 6-8, 11-15. Livr. 3, 1883, pp. 97-122, pls. 7, 12, 16, 17, 17bis, 18, 18bis, 19, 20, 20bis, 21.

The following Mexican species are described as new: *Spelerpes laticeps*, *Spelerpes sulcatum* and *Spelerpes punctatum*. (The descriptions of *Hylodes lineatus* and *Exerodonta sumichrasti*, said to be the original, are not.)

BROWN, ARTHUR ERWIN.

1908. Generic types of Nearctic reptilia and amphibia. Phila. Acad. Nat. Sci., Proc. 1908, 59, pp. 112-127.

BURT, CHARLES W.

1932. Some Mexican herpetological records. Copeia, 1932, No. 3, Oct. 7, p. 158.

BUSNEL, R.-G., and DRILHON, A.

1942. Influence de la pigmentation mélanique sur l'intensité de la respiration cutanée d'un Vertébré inférieur, *Axolotl mexicanum* Shaw. C. R. Acad. Sci. Paris, 214 (5), pp. 238-241.

CABALLERO Y C., EDUARDO.

1933. Nematodos parásitos de los batracios de México. Anal. Inst. Biol. Mex., 4, No. 3 and 4, 1933, pp. 187-190, figs. 1-6.

Dermophis mexicanus.

1938. Revisión y clave de las especies del género *Glyptelminis*. Anal. Inst. Biol. Mex., 9, 1938, pp. 121-149, figs. 1-11.

Rana montezumae.

1940. Nuevos genero y especie de Hirudineo perteneciente a la subfamilia HAEMADIPSINAE. Anal. Inst. Biol. Mex., 11, No. 2, 1940, pp. 573-583, fig. 1-7.

Rhyacosiredon altamirani, *Oedipus*.

- 1942a. Tremátodos de las Ranas de la Ciénaga de Lerma, México. 1. Anal. Inst. Biol. Mex., 12, No. 2, 1942, pp. 623-641, figs. 1-6.

Rana montezumae and *Rana pipiens*.

- 1942b. Tremátodos de las Ranas de la Ciénega de Lerma, Estado de México III. Redescription de una forma Norte americana de *Haematolacchus* y algunas consideraciones sobre *Glypthelmins californiensis* Cort 1919, (1). Anal. Inst. Biol. Mex., 13, No. 1, 1942, pp. 71-79, figs. 1-2.
1944. Estudios helmintológicos de la region ancercosa de México y Guatemala, Nematoda. Anal. Inst. Biol. Mex., 15 (1), pp. 87-108, figs. 1-18.
- CABALLERO Y C., EDUARDO and BRAVO HOLLIS, MARGARITA.
1940. Nemátodos parásitos de los batracios de México. IV. Anal. Inst. Biol. 11, pp. 239-247, pls. 1-3.
- CABALLERO Y C., EDUARDO, BRAVO HOLLIS, MARGARITA, and CERECERO, M. C.
1944. Estudios helmintológicos de la región ancercosa de México y de la Republica de Guatemala. Trematodo I. Anal. Inst. Biol. Mex., 15 (1), p. 59-72, figs. 1-7.
- CABALLERO Y C., EDUARDO, and CERECERO, CRISTINA.
1942. Una nueva especie de Polystoma (Tremátoda: Polystomatidae) parásito de la vejiga urinaria de *Hyla baudinii* (Dum. y Bibr.). Anal. Inst. Biol. Mex., 12, No. 2, 1941, pp. 615-621, figs. 1-2.
- Hyla baudinii*.
- CALORI, LUIGI.
1851. Sull. Anatomia dell'Axolotl. Mem. dell'Accad. di Bologna, 3, 1851, pp. 269-362.
- Not certain that *Siredon mexicanus* is discussed.
- CAMERANO, LORENZO.
1878. Di alcune specie di Anfibi Anuri esistenti nelle collezioni del R. Museo Zoologico di Torino. Atti R. Accad. Sci. Torino, 14, 1878-1879 (1878), Clas. Sci. Fis. Mat., pp. 866-897.
- Describes *Dromoplectrus* with *Bufo anomalus* the type, and discusses *Bufo intermedius*, *Bufo occipitalis* sp. nov.
- CAMPBELL, BERRY.
1931. Notes on Batrachoseps. Copeia, 1931, No. 3, Oct. 30, pp. 131-134.
- Batrachoseps attenuatus leucopus*, Baja California.
- CARBONNIER, M.
1883. Notes on the habits and the rearing of the axolotl *Amblystoma mexicanum* (translated from the French by Tarleton H. Bean). Proc. U. S. Nat. Mus., 5, 1882 (1883), pp. 221-222.
- CARR, A. J., JR., and GOIN, COLEMAN J.
1943. Neoteny in Florida salamanders. Proc. Fla. Acad. Sci., 6, (1), 1943, pp. 37-40.
- CARRIERE, J.
1885. Die postembryonale Entwicklung der Epidermis des *Siredon pisciformis*. Arch. Mikr. Anat., 24, pp. 19-49, pls. 2, 3.
- CHAUVIN, MARIE V.
1876. Ueber die Verwandlung der mexicanischen Axolotl in *Amblystoma*. Zeit. wiss. Zool., 27, No. 4, 1876, pp. 522-535.
1883. Ueber die Fortpflanzung des *Amblystoma*. Zool. Anz., 6, No. 149, Sept. 24, 1883, pp. 513-515.
- Uses the term axolotl without reference to the source of the material. Probably Parisian stock.
1885. Ueber die Verwandlungsfähigkeit des mexikanischen Axolotl. 1885, pp. 365-389.

CLEMENTS, DOROTHY I.

1938. Histological studies of the effect of iodine on the Old Mexican axolotl (*Amblystoma tigrinum*) during metamorphosis. Proc. Zoöl. Soc. London 108 (B), pp. 551-574, pls. 1-3, fig. 1.

COLE, C. E.

1928. Notes on the breeding of the Mexican axolotyl. S. Aus. Nat. 9, (4), pp. 63-65.

COPE, EDWARD DRINKER.

1860. Descriptions of reptiles from tropical America and Asia. Proc. Acad. Nat. Sci. Philadelphia, 12, 1860, pp. 368-374.

Discusses *Spelerpes bellii* and *Geotriton carbonarius*.

1862. Catalogues of the reptiles obtained during the explorations of the Parana, Paraguay, Vermejo, and Uruguay rivers, by Capt. Thos. J. Page, U. S. N.; and of those procured by Lieut. N. Michler, U. S. Top. Eng., Commander of the expedition conducting the Survey of the Atrato River. Proc. Acad. Nat. Sci. Philadelphia, 14, Sept. 1862, pp. 346-359.

Describes *Hyla muricolor* from Mirador, Veracruz, *Hyla callidryas* from Panamá, and *Hyla phaeota* from Turbo, Darien. He proposes the genus *Scytotis* and considers the recent breaking up of the genus *Bufo* and refers Mexican species to the following genera: *Chilophryne cognata*, *Phrynoidis alvarius*, *Bufo sinus*, *Bufo anomalus*, *Bufo insidiator* and *Bufo punctatus*.

1863. On Trachycephalus, Scaphiopus and other American Batrachia. Proc. Acad. Nat. Sci. Philadelphia, 15, 1862 (1863) pp. 43-54.

Type descriptions of *Hyla miotympanum*, *Scaphiopus multiplicatus*, *S. varius*, and *S. rectifrenis*. Also lists *Hyla griseus* (Mexico?), *Hyla baudinii*, *Scaphiopus couchii*. Places *Spelerpes chiropterus* under AMBLYSTOMIDAE.

- 1864a. Contributions to the herpetology of tropical America. Proc. Acad. Nat. Sci. Philadelphia, 16, 1864, pp. 166-181.

Original description of *Phyllomedusa dacnicolor* from near Colima. *Paludicola pustulosus* from River Truando in New Granada. *Agalychnis callidryas* and *A. moreletii* are mentioned.

- 1864b. On the limits and relations of the Raniformes. Proc. Acad. Nat. Sci. Philadelphia, 16, 1864, pp. 181-183.

Proposes the family RHINOPHRYNIDAE.

- 1865a. Sketch of the primary groups of Batrachia s. Salientia. Nat. Hist. Rev., 1865, pp. 97-120.

Key to genera.

- 1865b. Third contribution to the herpetology of tropical America. Proc. Acad. Nat. Sci. Philadelphia, 17, Oct. 1865, pp. 185-198.

Describes *Pharyngodon petasatus*, *Hyla gracilipes*, *Hyla stauferi*, *Smilisca daulimia*, *Spelerpes orculus*, *Spelerpes cephalicus*, *Spelerpes lineolus*.

- 1866a. On the structures and distribution of the genera of the arciferous Anura. Journ. Acad. Nat. Sci. Philadelphia, (2), 6, pt. 1, July 1866, pp. 67-112, pl. 25.

- 1866b. Fourth contribution to the herpetology of tropical America. Proc. Acad. Nat. Sci. Philadelphia, 18, 1866, pp. 123-132.

Bufo coccifer, from Arriba, Costa Rica, and *Engystoma ustum* from Guadalajara are described as new. *Triprion* proposed for *Pharyngodon*, preoccupied.

- 1867a. On the reptilia and batrachia of the Sonoran province of the Nearctic Region. Proc. Acad. Nat. Sci. Philadelphia, 18, 1866, pp. 300-314.
Type descriptions of *Hyla curta* and *Bufo frontosus*. Lists also *Hyla regilla*, *Scaphiopus couchii*, *Bufo punctatus*, from the cape region of Baja California.
- 1867b. Fifth contribution to the herpetology of tropical America. Proc. Acad. Nat. Sci. Philadelphia, 18, 1866, pp. 317-323.
The type description of *Lithodytes rhodopis*, said to be near *L. griseus* of the same region (Orizaba).
- 1867c. On the families of the raniform Anura. Journ. Acad. Nat. Sci. Philadelphia, (2) 6, Part II, Art. 4, Sept. 1867, pp. 189-205.
Systema ustum mentioned.
- 1868a. A review of the species of the Amblystomidae. Proc. Acad. Nat. Sci. Philadelphia, 19, 1867, pp. 166-211.
Amblystoma mexicanum and *Amblystoma mavortium* var. *proserpine* are discussed.
- 1868b. An examination of the Reptilia and Batrachia obtained by the Orton expedition to Ecuador and the upper Amazon, with notes on other species. Proc. Acad. Nat. Sci. Philadelphia, 20, Mar. 1868, p. 96-140.
Describes *Bufo argillaceus* from Colima, México.
- 1869a. On the origin of genera. Proc. Acad. Nat. Sci. Philadelphia, 20, Oct. 1868, pp. 242-300.
Certain Mexican species and genera mentioned.
- 1869b. Sixth contribution to the herpetology of tropical America. Proc. Acad. Nat. Sci. Philadelphia, 20, 1868, pp. 305-313.
Lists *Spelerpes lineolus* from Córdoba, Veracruz, and *Geotriton carbonarius* from Yucatán.
- 1869c. A review of the species of the Plethodontidae and Desmognathidae. Proc. Acad. Nat. Sci. Philadelphia, 21, 1869 (May), pp. 93-118.
Treats of *Opheobatrachus lineolus*, *Oedipus carbonarius*, *Oedipus variegatus*, *Spelerpes bellii*, *S. cephalicus*, *S. chiropterus*. Type descriptions of *Oedipus rufescens*, *Spelerpes leprosus* and *Thorius pennatululus* appear.
- 1869d. Seventh contribution to the herpetology of tropical America. Proc. Amer. Philos. Soc., 11, July 1869, pp. 147-169, pls. 9-11.
Describes *Liyla rugulosa*, from Tehuantepec; also lists the following: *Cystignathus melanonotus*, *C. gracilis* and *Ranula affinis*.
- 1871a. On Siredon metamorphosis, etc. Amer. Journ. Sci. Arts., (3), 1, Feb. 1871, pp. 89-90.
States that the metamorphoses observed by Prof. Duméril were not of *Siredon mexicanus*.
- 1871b. Ninth contribution to the herpetology of tropical America. Proc. Acad. Nat. Sci. Philadelphia, 22, 1871, pp. 200-224.
Lists *Systema ustum*, *Bufo aqua*, *Bufo sternosignatus* and *Lithodytes rhodopis*, from Tehuantepec.
- 1871c. On Siredon metamorphosis. Ann. Mag. Nat. Hist., (4), 7, 1871, pp. 246-247.
1874. Description of some species of reptiles obtained by Dr. John F. Bransford, assistant surgeon United States Navy, while attached to the Nicaraguan surveying expedition in 1873. Proc. Acad. Nat. Sci. Philadelphia, 25, pp. 64-72.
Type description of *Hyla ebraccata*, Nicaragua.

1875. Check-list of North American Batrachia and Reptilia, Bull. U. S. Nat. Mus. 1, pp. 1-104.
1876. On the Batrachia and Reptilia of Costa Rica. Journ. Acad. Nat. Sci. Philadelphia, (2), 8, 1876, pp. 93-154, pls. 23-28.
Type description of *Microphryne pustulosa* is given. *Bufo coccifer* is figured.
1877. Tenth contribution to the herpetology of tropical America. Proc. Amer. Philos. Soc., 17, No. 100, Aug. 1877, pp. 85-98.
Type descriptions of *Bufo canaliferus*, *Hyla spilomma*, *Hyla bistincta*, *Phylllobates cystignathoides* and *Cystignathus labialis*.
1878. Change by artificial means of a land to an aquatic salamander. Amer. Nat., 12, July 1878, pp. 468-469.
Mexican Ambystoma.
- 1879a. Eleventh contribution to the herpetology of tropical America. Proc. Amer. Philos. Soc., 18, No. 104, 1878-1880 (June 20, 1879 [Aug. 11 ?]) pp. 261-277.
Lists *Agalychnis dacnicolor* and *Bufo debilis* (probably *kelloggi*), from Mazatlán. From Guanajuato, *Spelerpes belli*, *Bufo punctatus*, *Bufo intermedius*, *Bufo monksiae* sp. nov., *Spea hammondi*, *Hyla eximia*, *Hyla arenicolor*, *Malachylodes guttilatus* sp. nov., *Cystignathus microtis* sp. nov., *Rana montezumae* and *Rana halecina* from Guanajuato; *Hypopachus variolosus* from Guadalajara; from Tehuantepec, *Oedipus rufescens*, *Oedipus carbonarius carbonarius*, *Oedipus carbonarius salvini*, *Siphonops mexicanus*, *Bufo aqua*, *Bufo sternosignatus*, *Bufo canaliferus*, *Bufo coccifer*, *Bufo valliceps*, *Microphryne pustulosa*, *Engystoma ustum*, *Rhinophrynus dorsalis*, *Hyla miotympanum*, *Smilisca baudini*, *Hylella platycephala* sp. nov., *Lithodytes rhodopsis*, *Lithodytes podiciferus*, *Syrrophus leprus* sp. nov., *S. cystignathoides*, *Cystignathus melanotus*, *Cystignathus perlaevis* sp. nov., *C. microtis*, *C. gracilis*, *C. labialis*, *Ranula affinis*, *Rana halecina*.
- 1879b. A contribution to the zoology of Montana. Amer. Nat., 13, No. 7, July 1879, pp. 432-441.
Bufo dipternus is described from Montana.
- 1879c. Another siredon. Amer. Nat., 13, 1879, pp. 456-457.
1880. On the zoological position of Texas. Bull. U. S. Nat. Mus., No. 17, 1880, pp. 1-51.
Diemyctylus miniatus meridionalis described from Matamoros, Tamaulipas, México. Other species mentioned.
- 1885a. Twelfth contribution to the herpetology of tropical America. Proc. Amer. Philos. Soc., 22, No. 118, 1884 (1885), pp. 167-194, figs. 1-8.
Lists *Rana halecina* from Monterrey, and *Dermophis mexicanus*.
- 1885b. A contribution to the herpetology of Mexico. Proc. Amer. Philos. Soc., 22, No. 120, Apr. 1885, pp. 379-404.
Lists *Spelerpes bellii*, *Bufo intermedius*, *Bufo aqua*, *Hyla nigropunctata*, *Hyla gracilipes*, *Smilisca baudini*, *Lithodytes rhodopsis*, *Hyla miotympanum*, *Rana halecina* and *Hyla arenicolor*. *Hypodictyon* proposed for *H. ridens* (= *Phylllobates ridens* Cope), and includes *verruculatus* and *H. calceus* Peters. *Syrrophus verrucipes* is described.
1887. Catalogue of batrachians and reptiles of Central America and Mexico. U. S. Nat. Mus. Bull., No. 32, 1887, pp. 1-98.
Lists the known Mexican Amphibia. The genus *Diaglena* is proposed.

1888. (No title.) Amer. Nat., 22, No. 253, Jan. 1888, p. 80. Mentions a frog described by Boulenger as *Hyla coper* (sic) for (*copii*). In a footnote, it is referred to *H.(ylo) arenicolor* Cope.
1889. The Batrachia of North America. Bull. U. S. Nat. Mus., No. 34, 1889, pp. 1-525, pls. 1-86, text figs. 1-119.
A few Mexican species recorded.
1893. Second addition to the knowledge of the batrachia and reptilia of Costa Rica. Proc. Amer. Philos. Soc., 31, No. 142, Nov. 17, 1893, pp. 333-347.
Comments on *Lithodytes rhodopis*.
1896. The geographical distribution of Batrachia and Reptilia in North America. Amer. Nat., Nov. and Dec. 1896, pp. 886-902, 1003-1026.
Many Mexican species mentioned with relation to the various faunal provinces.
1900. The crocodilians, lizards, and snakes of North America. Ann. Report U. S. Nat. Mus., 1898 (1900), pp. i-xviii, 155-1294, pls. 1-36, text figs. 1-347.
Spelerpes leprosus mentioned p. 757, and numerous amphibians are listed in the discussion of the faunal districts.
- CORNALIA, EMILIO.
1868. Gli Axolots del Museo civico di Milano. Rendic. R. Istit. Lombard., (2), 1, 1868, pp. 383-388.
- CUNNINGHAM, J. T.
1887. Siredon in Encycl. Brit. Ed. 9, 22, pp. 96-97.
A good historical account.
- CUESTA TERRON, CARLOS.
1930. La *Hyla eximia* Baird. Anal. Inst. Biol. 1 (2), 1930, pp. 47-50, figs. 1-4.
- DARESTE, C.
1874. Sur une particularité physiologique de l'Axolotl. Compt. Rend., 78, 1874, pp. 1656-1657.
- DAUDIN, F. M.
1803. Histoire Naturelle, Générale et particulière des reptiles. Vols. 1-8, Paris, Year X-XI (1802-1803). Vol. 8, 1803, pp. 1-439.
Describes a Mexican axolotl.
- DECKERT, RICHARD.
1915. Review of two series of amphibians. Zoologica, 2, No. 1, Oct. 1915, pp. 1-34, figs. 1-6.
Certain Mexican species mentioned.
- DE JAGER, E. F. J.
1939. Contributions to the cranial anatomy of the Gymnophiona. Further points regarding the cranial anatomy of the genus Dermophis. Anat. Anz., 88, No. 11-15, June 28, 1939, pp. 193-222, 9(= 14) text figs.
- DE LILLE, JOSE.
1934. Nota preliminar acerca de la accion fisiologica del veneno de *Dermophis mexicanus*. Anal. Inst. Biol., México, 5, No. 4, 1934, pp. 323-326.
- DESAUSSURE.
1868. () Verh. d. Schweiz Naturf. Gesell.
Einsideln, 1868, pp.?
Observations on the Mexican axolotl.

DESOR, E.

1879. Quelques details sur les métamorphoses du *Sirenodon* (sic), Bull. Soc. Sci. Nat. Neuchâtel, 8, 1869-1870 (1870), pp. 266-269.

DÍAZ DE LEÓN, JESUS.

1904. Índice de los Batracios que se encuentran en la Republica Mexicana. Imprenta de Ricardo Rodriguez Romo. Aguascalientes, June 1904, pp. 1-40.

A compiled list of the Amphibia of México: 105 Salientia, 20 Urodela, and 1 Apoda are listed.

DICKERSON, MARY C.

1906. The Frog Book. New York, Doubleday, Page & Co. 1906, pp. xvii + 253. Color pls. 1-16, halftone pls. 1-95, 35 text figs.

DODDS, CLIFFORD T.

1923. A note on *Bufo marinus*. Copeia, 1923, No. 114, pp. 5-6. A specimen from Los Mochis, Sinaloa. Effect of venom on a dog.

DUGÈS, ALFREDO AUGUSTO DELSESCAUTZ

1869. Catálogo de animales vertebrados observados en la República Mexicana. La Naturaleza, 1, 1869-1870 (1869), pp. 137-145.

Lists *Rana Moctezumae* (sic), *R. halecina*, *R. longipes*, *Cystignathus caliginosus*, *Scaphiopus holbrooki*, *Hyla eximia*, *H. versicolor*, *Hylodes laticeps*, *Bufo aqua*, *B. anomalus*, *B. intermedius*, *B. chilensis*, *Engystoma* sp. nov. ?, *Bolitoglossa mexicana*, *Siredon lichenoides* and *Siredon lichenoides* var. *alba* (pescado nutria), México.

1870. Una nueva especie de ajolote de la Laguna de Pátzcuaro. La Naturaleza, 1, 1869-1870 (1870), pp. 241-244, pl. 5.

Purports to be a type description of *Siredon Dumerilii*; the author states, "Sin: *Siredon Dumerilii*," as if published elsewhere.

1872. Note sur une nouvelle espèce d'axolotl (le *Siredon Dumerilii*) (Extraite d'une lettre adressée à M. *** et datée de Guanajuato, mai 1870). Ann. Sci. Nat. Paris, (5), 15, Art. 17, 1872, pp. (1-2), pl. 10.

1878. Programa de un curso de zoologia. Guanajuato. 8vo. ix + 257 + 8. Numerous reptile and amphibian species mentioned.

1879. *Hylodes augusti*, A Dugès. (In) Brocchi, Sur divers batraciens anoures de l'Amérique Centrale. Bull. Soc. Philom. Paris, (7), 3, pp. 19-24.

1884. Elementos de zoologia. Mexico (city). 8vo. pp. viii-479, 11 pls. Reptiles and amphibians, pp. 320-347, pl. 7.

Practically a list of Mexican reptiles and amphibians; some of the reptile illustrations are original.

1888. Erpetología del valle de México. La Naturaleza, (2), 1, Cuad. 2-4, 1887-1890 (1888), pp. 97-146, pls. 11-13, three figs. in text.

Lists *Hyla eximia*, *Rana montezumae*, *Rana halecina*, *Bufo compactilis*, *Amblystoma carolinae*, *Amblystoma tigrinum*, *Siredon tigrinum* and *Siredon edule*. *Amblystoma Velasci* is proposed as a substitute for *Siredon tigrinum* Velasco.

1892. Descripción del esqueleto del *Rhinophrynus dorsalis*, D. B. La Naturaleza, (2), 2, Cuad. 2-4, 1891-1897 (1892), pp. 98-100, pl. 5, figs. 1-4.

1894. *Amblystoma altamirani*, A. Dug. La Naturaleza 2 (2nd Ser.), pp. 7-9, pl. 29, figs. 1-8.

1894. Lista de algunos reptiles y batracios de Tabasco y Chiapas, La Naturaleza (2), 2, Cuad. 7-8, 1892-1896 (1894), pp. 375-377.
Oedipus rufescens, *Spelerpes mexicanus*, *Bufo marinus*, *B. canaliciferus*, *Rhinophrynus dorsalis*, *Hyla miotympanum*, *Smilisca baudini*, *Leptodactylus melanonotus*, *Leptodactylus echinatus* and *Dermophis mexicanus* are listed.
- 1895a. Fauna del estado de Guanajuato. (In) Memoria sobre la administracion publica del estado de Guanajuato presentada al congreso del misma por el C. Gobernador constitucional Lic. Joaquin Obregón Gonzales, El 1 de Abril de 1895 Morelia.
 Lists *Spelerpes Bellii*, *Amblystoma tigrinum*, *Bufo compactilis*, *Bufo intermedius*, *Bufo punctatus*, *Hyla arenicolor*, *Hyla eximia*, *Hylodes Augusti*, *Malachylodes guttilatus*, *Hypopachus variolosus*, *Scaphiopus Dugesii*, *Rana virescens* and *Rana Draytoni*.
- 1895b. Description d'un Axolotl de Montagnes de las Cruces (*Amblystoma altamirani* A. Dugès). Imprimerie du Ministere de "Fomento," 1895, pp. 1-6, 1 pl.
 Original description of *Amblystoma altamirani* Dugès.
- 1895c. *Amblystoma altamirani*, A. Dug. (In) Fernando Altamirano, Sobre algunos excursiones a las montañas del Ajusco y Sierranía de las Cruces. Informe que rinde á la Secretaría de Fomento el Director del Instituto Médico Nacional, México, 1895, pp. 1-64, 1 pl.
 Description, pp. 5-9, in French, and a Spanish translation under the title "El *Amblystoma altamirani*, A. Dug." on pp. 9-13. The French description was reprinted in the following paper.
- 1896a. *Amblystoma altamirani* A. Dugès. La Naturaleza, (2), 2, Cuad. 10-11, 1891-1897 (1896), pp. 459-461, pl. 29.
- 1896b. Reptiles y batracios de los E. U. Mexicanos. La Naturaleza, (2), 2, Cuad. 10-11, 1892-1896 (1896), pp. 479-485.
 References to the then known Mexican species: *Oedipus rufescens*, *Spelerpes mexicanus*, *S. Mülleri*, *S. Bellii*, *S. leprosus*, *S. morio*, *S. chiropterus*, *Amblystoma tigrinum*, *A. altamirani*, *Siredon tigrinum*, *S. mexicanum*, *Bufo americanus*, *B. canaliciferus*, *B. compactilis*, *B. marinus*, *B. intermedius*, *B. punctatus*, *Rhinophrynus dorsalis*, *Hyla arenicolor*, *H. eximia*, *H. miotympanum*, *Smilisca Baudini*, *Hylodes Augusti*, *Malachylodes guttilatus*, *Leptodactylus ocellatus*, *L. labialis*, *L. echinatus*, *L. microtis*, *L. melaenonotus*, *Hypopachus variolosus*, *Scaphiopus Dugesii*, *Rana sphenocephala*, *R. nigricans*, *R. virescens halecina*, *R. Montezumae*, *Dermophis mexicanus*.
1897. Influencia del medio ambiente sobre la readaptación. Mem. Soc. Cient. Ant. Alzate, 10, 1897, pp. 341-342.
 (Account of an *Ambystoma* in adult state, except with degenerate non-filamentous branchiae, redeveloping fully formed branchiae when kept in an aquarium, while retaining all other adult characters.)
- 1901a. Experimento en un Ajolote. La Naturaleza, (2) 3, Cuad. 7-8, 1901, p. 562, pl. 36.
Amblystoma altamirani is discussed.
- 1901b. Sobre un *Amblystoma altamirani*. Mem. Soc. Cient. Antonio Alzate, 16, 1901, pp. 31-34, pl. 1.
- DULTZ, ERNST.
1874. Züchtungsversuche mit einem Aquariumbewohner, dem axolotl (*Amblystoma Axolotl*). Gef. Welt., 3, 1874, pp. 195, 209-210.

1876. Züchtungsversuche mit dem Axolotl. Isis (Russian), 1, 1876, pp. 39-40, 47-48, 1 pl.

DUMÉRIL, ANDRÉ MARIE CONSTANT, BIBRON, GABRIEL and AUGUSTE HENRI ANDRÉ DUMÉRIL.

1841. *Erpétologie générale ou Histoire naturelle complète des 1854.*
Reptiles, Vols. 1-9 and Atlas. Paris 1834 to 1854.

Volume 8 (1841) and 9 (1854), treat of the Salientia and Urodela respectively. The atlas (1854) has a few illustrations of Mexican forms; a few Mexican species listed. Vols. 7 (both parts), 9, and the atlas were compiled by all three authors, but only André Duméril and Bibron are cited as authors of the other volumes.

DUMÉRIL, AUGUSTE.

1853. *Memoire sur les Batraciens Anoures de la famille des hylaeformes ou rainettes comprenant la description d'un genre nouveau et de onze espèces nouvelles.* Ann. Sci. Nat., (3) Zool. 19, 1853, pp. 135-179, pl. 7.

Contains the type descriptions of *Hyla moreletii*, (Guatemala) and *Hylodes laticeps*, Yucatán.

1863. Title?

Mem. Soc. Sci. Nat. Cherbourg, 9, 1863, pp. (23), fig. 10.

Siphonops mexicanus.

- 1865a. *Reproduction, dans la Ménagerie des Reptiles au Muséum d'Histoire naturelle, des axolotls, Batraciens, Urodèles à branchies persistantes de Mexico (Siredon Mexicanus, vel Humboldti), qui n'avaient encore jamais été vus vivants en Europe.* Compt. Rend. l'Acad. Sci., 60, No. 14, 1865, pp. 765-767.

Cope has expressed the idea that the species treated here is not *Siredon mexicanus* as specimens were sent to Cope to examine.

- 1865b. *Nouvelles observations sur les axolotls nés à la Ménagerie.* Compt. Rend. l'Acad. Sci, 1865, p. 775

- 1865c. ———

Bull. Soc. Imp. d'Acclimat., II, 1865, p. 348.

- 1866a. *Observations faites à la Ménagerie des reptiles du muséum d'histoire naturelle sur reproduction des Axolotls, Batraciens urodèles à branchies extérieures et sur les Métamorphose qu'ils y ont subies.* Bull. Soc. Imp. Zool. d'Acclimat., (2), 3, 1866, pp. 79-89, figs.

- 1866b. *Observations sur la reproduction dans la Ménagerie des reptiles du Muséum d'Histoire Naturelle, des Axolotls, Batraciens urodèles à branchies extérieures du Mexique, sur leur development et sur leurs métamorphoses.* Nouv. Arch. Mus. d'Hist. Nat., 2, 1866, pp. 265-292, pl. 10 and figs.

- 1866c. *Observations sur la reproduction des Axolotls (Extrait) from Bull. Soc. Imp. d'Acclimat., (2) 3, 1866, pp. 79-89.*

- 1866d. (Extract of same.) Arch. Sci. Phys. et Nat. Genève, Nouv. period, 26, 1866, pp. 344-347.

- 1866e. *On the Development of the Axolotl (Siredon mexicanus vel Humboldtii),* Ann. Mag. Nat. Hist., (3), 17, 1866, pp. 156-157.

- 1867a. *Description de diverses monstruosités observée à la ménagerie des reptiles du Muséum d'Histoire Naturelle sur les Batraciens Urodèles à branchies extérieures.* Nouv. Arch. Mus. Hist. Nat., 3, 1867, (Mém.), pp. 119-130, pl. 5.

- 1867b. Expériences démontrant que la vie aquatique des Axolotls, batraciens urodèles à branchies extérieures, se continue sans trouble apparent après l'ablation des houppes branchiales. *Nouv. Arch. Mus. Hist. Nat.*, 3, 1867, Mém. pp. 189-192.
- 1867c. Experiments on the Axolotl. *Ann. Mag. Nat. Hist.*, (3), 20, 1867, pp. 446-449.
- 1867d. Nouvelles observations sur les Axolotls, Batraciens urodèles, du Mexique, à branchies extérieures et expériences démontrant que la vie aquatique se continue, sans trouble apparent, après l'ablation des houppes branchiales. *Bull. Soc. Imp. d'Acclimat.* (2), 4, 1867, pp. 563-573, figs.
- 1867e. Métamorphoses des Batraciens urodèles à branchies extérieures du Mexique dits Axolotls, observées à la Ménagerie des Reptiles du Muséum d'Histoire Naturelle. *Ann. Sci. Nat.*, (5), 7, 1867, pp. 229-254, 10 figs.
The principal part of this paper was republished in *Bull. Soc. Imp. d'Acclimat.*, 1867, pp. 563-573.
- 1867f. (Resume of same). *Nouv. Arch. Mus. d'Hist. Nat.* 2, 1866, p. 265.
- 1870a. Création d'une race blanche d'Axolotls à la Ménagerie des Reptiles du Muséum d'histoire Naturelle et remarques sur la transformation de les batraciens. *Compt. Rend.*, 70, 1870, pp. 782-785.
- 1870b. Création d'une race blanche d'Axolotls à la Ménagerie des Reptiles du Muséum d'histoire Naturelle et remarques sur la transformation de ces batraciens. *Bull. Soc. Imp. d'Acclimat.*, (2), 7, 1870, pp. 267-270.
- 1870c. Künstliche Züchtung der Axolotl. (Auszug), *Lotos*, 20, 1870, pp. 150-151.
1872. Notes complémentaires sur les Axolotls. *Mém. Soc. Linn. Nord France*, 2, 1868-1871 (1872) pp. 248-251

DUNN, EMMET REID.

1918. The collection of Amphibia Caudata of the Museum of Comparative Zoölogy. *Bull. Mus. Comp. Zoöl.*, 62, No. 9, Dec. 1918, pp. 445-471.
A few Mexican forms listed: *Oedipus bellii*, *O. leprosus*, *O. variegatus* and *O. yucatanus*.
- 1922a. A new salamander from Mexico. *Proc. Biol. Soc. Washington*, 35, Mar. 20, 1922, pp. 5-6.
Type description of *Oedipus townsendi*.
- 1922b. Two new insular Batrachoseps. *Copeia*, No. 109, Aug. 15, 1922, pp. 60-63.
Batrachoseps leucopus is described from North Island, Los Coronados, Baja California.
- 1922c. The sound-transmitting apparatus of salamanders and the phylogeny of the caudata. *Amer. Nat.*, 56, pp. 418-427.
Lists the genera of salamanders and gives the number of species in each (pp. 426-427).
- 1922d. Notes on some tropical ranae. *Proc. Biol. Soc. Washington*, 35, Oct. 17, 1922, pp. 221-222.
The specimen of *Rana pustulosa* in the Museum of Comparative Zoölogy, reported from Sinaloa, is a specimen of *Rana montezumae* (fide Oliver, *Occ. Papers Mus. Zoöl. Univ. Mich.*, No. 360, Nov. 20. 1937, p. 8).

- 1924a. New salamanders of the genus *Oedipus* with a synoptical key. Zool. Ser., Field Mus. Nat. Hist., 12, No. 7, May 19, 1924, pp. 95-100.
Several of the Mexican forms are included in the key.
- 1924b. New amphibians from Panamá. Occ. Pap. Boston Soc. Nat. Hist., 5, 1924, pp. 93-95.
Mentions *Oedipus lineolus* from México, and discusses *Oedipina*.
1926. The salamanders of the family Plethodontidae. Smith College, Northampton, Mass., 1926, viii + 441, figs. 1-11, maps 1-86, 1 pl.
Treats of several Mexican plethodontid salamanders.
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- 1928a. The habitats of Plethodontidae. Amer. Nat., 62, 1928, pp. 236-248.
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terus, *S. variegatus*, *S. belli*, *Batrachoseps attenuatus*, *Scaphiopus dugesi*, *Rhinophryne dorsalis*, *Bufo valliceps*, *B. marinus*, *B. marmoreus*, *B. intermedius*, *Hyla baudini*, *H. eximia*, *H. staufferi*, *H. copei*, *Phyllomedusa dacnicolor*, *Hylodes rhodopis*, *H. beatae*, *Eupemphix gadovii*, *Leptodactylus albilabris*, *L. caliginosus*, *Borborocoetes mexicanus*, *Syrhophus verruculatus*, *Paludicola mexicana*, *Engystoma ustum*, *Rana montezumae*, *R. halcina*, *R. palmipès*; numerous other species are listed or discussed.

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1829. Deliciae Musei zoologici Vratislaviensis Fasciculus Primus continens chelonios et Batrachia. Lipsiae, Leopoldi Vossii.
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1850. Catalogue of the specimens of amphibia in the collection of the British Museum. Part II. Batrachia Gradientia. 1850, pp. 1-72, pls. 3-4.
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Describes *Cystignathus melanonotus* (Nicaragua), *Hyla grisea* (? Nicaragua) and *Bufo melanogaster* (Nicaragua).

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- 1891-1893. El clima del valle de México y la biología de los vertebrados. La Naturaleza, (2), 2, Cuad. 1, 1891, pp. 38-64, and Cuad. 2-4, 1892, pp. 64-86, Cuad. 5-6, 1893, pp. 324-358.

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1895. Catálogo de la colección de reptiles y batracios del Museo Nacional. Mexico, 1895, pp. 1-66.

The following species are listed: *Siphonops mexicana*, *Rana montezumae*, *R. halcinea*, *Scaphiopus dugesi*, *Hyla eximia*, *H. versicolor*, *Bufo americanus*, *B. compactilis*, *B. aqua*, *B. musicus*, *Plethodon erythronotum*, *Spelerpes morio*, *S. mexicanus* and *Amblystoma tigrinum*; 2nd Edit. 1904, pp. 1-65. Same species listed.

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HUMPHREY, R. R.

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1938. Studies on sex reversal in Amphibia. XI. Reversal in *A. tigrinum* females induced by ectopic implantation of testis preprimordia. Anat. Rec. 72, pp. 451-467, pl. 1, table 1, figs. 1-2.

1939. The growth of gonads derived from heteroplastic transplants of their preprimordia in *Amblystoma*. Amer. Journ. Anat. 65, pp. 35-67, pls. 1-3, charts 1-4, tables 1-4.
1941. Adult Artificial hermaphrodites in *Amblystoma tigrinum* and *mexicanum*. Amer. Journ. Anat. 69, pp. 19-59, pls. 1-3, tables 1-2, figs. 1-13.
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- 1942b. Sex reversal and the genetics of sex determination in the axolotl (*Amblystoma mexicanum*). Anat. Rec. 84, (4) (suppl.), p. 15.
- 1942c. Sex inversion in the amphibia. Biol. Symp. 9, pp. 81-104, figs. 1-16.
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- HUMPHREY, R. R., and FONKHAUSER, G.
1943. Two unusual haploid-diploid mosaics of mixed *Amblystoma tigrinum* ancestry. Anat. Rec. 87 (4) (suppl.), p. 23.
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- JENSEN, C. O.
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1872. Etude sur la métamorphoses des Axolotls du Mexique (*Siredon mexicanus* Shaw). Developpment et rotation de leur embryon dans l'oeuf. Revue Scienc. Nat. 1, 1872, pp. 7-29.
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1832. Herpetology. In Edinburgh Encyclopedia, 1st Amer. Ed., Vol. X, pp. 365-406.

KNAUER, DR. FRIEDRICH K.

1878. Naturgeschichte der Lurche (Amphibiologie). Wien 1878, pp. i-xx, 1-340, figs. 1-120, 4 karten, 12 tab. Discussion of *Siredon mexicana*.

KOCH, M.

1926. Zur Umwandlung des mexikanischen Axolotls mittels Schilddrüsen-fütterung. Blatt. Aquar.-Terrarienk. 37, 1926, p. 245.

KOLLIKER, ALB.

- 1868a. Sur le développement des Axolotls. Verh. Schweiz. naturf. Ges. Einsiedeln, 52 Vers. 1868, pp. 87-89.

- 1868b. Remarques de plusieurs zoologistes sur la transformation de l'Axolotl. Verh. Schw. Naturf. Ges. Einsiedeln, 52, Vers. 1868, pp. 89-90.

1869. Ueber den mexikanischen Axolotl. Verh. Phys-medic. Ges. Wurzburg, N. F., 1, 1869, Sitzber. 1868, pp. xxiii-xxiv.

KOLLMAN, J.

1884. Das Ueberwintern von europäischen Frosch-und-Tritonlarven und die Unwaldung des mexikanischen Axolotl. Verh. Natur. Gesell. Basel 1883, pp. 387-398, fig. 1-2.

KRUMBIEGEL, I.

1928. Die Amphibienkenntreise im ältesten Amerika, nebat einigen ornithologischen Benarkungen. Zool. Anz. 1928, vol. 79, pp. 250-256, figs. 1-4.

LAFRENTZ, K.

- 1927a. Aus der Heimat des Axolotl. Blätt. Aquar.-Terrarienk. 38, 1927, p. 160.

- 1927b. Reptilien, Amphibien und Fische des mexikanischen Hochlandes. Blätt. Aquar.-Terrarienk., 38, 1927, pp. 318-325, 3 figs.

- 1928a. Neue Beobachtungen an Amphibien des mexikanischen Hochlandes. Blätt. Aquar.-Terrarienk., 39, 1928, pp. 89-92, 110-115, 5 figs.

Oedipus bellii, *O. sulcatum* (fig. 3), *Hyla eximia*, *Hyla* sp. (bocourti ?) (fig. 4), *Bufo compactilis*, fig. 5.

- 1928b. Reisebriefe aus Mexiko. Blätt. Aquar.-Terrarienk., 39, 1928, pp. 115-116, 1 fig.

- 1930a. Mexicanische Urnenpflanzenmolche (*Oedipus* sp.). Blätt. Aquar.-Terrarienk., 41, No. 4, Feb. 28, 1930, pp. 61-63, pl. 8.

This species is later described as *Oedipus macrinii*, in two publications.

- 1930b. Ein neuer Plethodont-Salamander aus Mexiko. (In) Beiträge zur Herpetologie Mexikos, Abh. Ber. Mus. Natur-Heimat. naturw. Ver. Magdeburg, 6, No. 2, 1930, pp. 150-152.

Type description of *Oedipus macrinii*.

- 1930c. Untersuchungen über die Lebensgeschichte mexikanischer Ambystoma-Arten. (In) Beiträge zur Herpetologie Mexikos, Abh. Ber. Mus. Natur. Heimat. naturw. Ver. Magdeburg, 6, No. 2, 1930, pp. 91-127, three maps, pls. 2-3.

Treats of *Ambystoma dumerili*, *A. mexicanum*, *A. tigrinum velascoi* (Type description), and *A. altamirani*.

1931. Ein neuer Plethodont-Salamander aus Mexiko, *Oedipus macrinii* sp. n. Blätt. Aquar.-Terrarienk., 42, No. 4, Feb. 28, 1931, pp. 55-56, 1 fig.

Purports to be the original description of *Oedipus macrinii*.

LAMPE, EDUARD.

1902. Catalog der Reptilien und Amphibien Sammlung (Schlangen; Frosch-, Schwanz- und Schleichenlurche) des Naturhistorischen Museums zu Weisbaden. Jahrb. Nassau Ver. Naturk., 55, 1902, pp. 1-66.

Lists *Rana halcina*, *Engystoma ustum*, *Bufo valliceps*, *Scaphiopus dugesi*, *Molge viridescens* and *Amblystoma tigrinum*.

LAURENTI, JOSEPH NICOLAI.

1768. Specimen medicum, exhibens synopsis Reptilium emendatum cum experimentis circa venena et antidota reptilium Austriacorum. Viennae, 1768, pp. 1-214, pls. 1-5.

Type description of *Hyla venulosa*.

LESSONA, MICH.

1877. Nota di un Axolotl del museo zoologico di Torino. Atti. R. Accad. Sci. Torino, 13, 1877-1878 (1877) pp. 137-139.

LINNÉ, CAROLUS VON (LINNAEUS).

1758. Systema Naturae, 10th Edit. Vol. 1, 1758, p. 211.

Rana marina described.

LINSDALE, JEAN M.

1932. Amphibians and Reptiles from Lower California. Univ. California Public. Zool. 38, No. 6, June 24, 1932, pp. 345-386.

The following species are treated in this work: *Scaphiopus couchii*, *S. hammondi*, *Bufo boreas halophilus*, *B. cognatus*, *B. californicus*, *B. punctatus*, *B. woodhousii*, *Hyla arenicolor*, *H. regilla*, *Rana aurora draytonii*.

1933. A specimen of *Rana tarahumarae* from New Mexico. Copeia, No. 4, Dec. 27, 1933, p. 222.

LIPSETT, JAMES C.

1939. Cleavage and early development in species hybrids. Bull. School Med. Univ. Md., 23 (4), p. 212.

LOCKINGTON, W. N.

1880. List of California reptiles and batrachia collected by Mr. Dunn and Mr. W. J. Fisher in 1876. Amer. Naturalist, 14, 1880, pp. 295-296.

Batrachoseps attenuatus.

LONG, STEPHEN H.

1823. Account of an expedition from Pittsburgh to the Rocky Mountains performed in the years 1819 and '20. Vols. 1-2, Philadelphia, H. C. Carey and I. Lea, 1823, pp. 6 + 442 + xcvi.

Vol. 2 contains the original description of *Bufo cognatus* Say.

LÖNNBERG, EINAR.

1899. Salamanders with and without lungs. Zool. Anz., 22, Dec. 28. 1899, No. 604, pp. 545-548.

Spelerpes variegatus lacks lungs.

LUBACH, D.

- 1867a. Gevolgen van het wegnemen der Kieuwen bij den Axolotl. Album der Natuur., 1867 (Wetensch. bijblad.), p. 77 (see Duméril in Compt. Rend., 65, p. 242).
- 1867b. Regeneratie der ledematen bij den Axolotl. Album der Natuur., 1867 (Wetensch. bijblad.), p. 63.
1870. De Axolotls de Parijs. Album der Natuur., 1870 (Wetensch. bijblad.), pp. 44-45. (See A. Duméril, Les Mondes, 1870, Apr. 21, p. 727.)

LÜTKEN, CHR.

1877. Nyere, Jagttagelser over Axolotl'en (Med traesnit). Tidskr. popul. Mremstilling af Naturvidensk, 5, R. 4, 1877, pp. 109-131.

LYDEKKER, RICHARD, CUNNINGHAM, J. T., BOULENGER, G. A., and THOMPSON, ARTHUR.

1912. Reptiles, Amphibia, Fishes and Lower Chordata. London, 1912, pp. xvi + 510, pls. 1-36, text figs. 32, 1 map.

MALBRANC, M.

1872. Ueber das Sperma von Siredon. Verh. d. Phys-medic Ges. Wurzburg, N. F., 3, 1872, pp. 136-140.

MALFATTI, GIOVANNI.

1873. Axolotls allevati nel Museo Civico. Atti. Soc. Ital. Sc. Nat., 16, 1873, pp. 141-147.

MARHERR, E.

1927. Zur Haltung von *Rana montezumae* (Baird). Blätt. Aquar. Terr. Kunde 38, (18) 1927, pp. 373.

MARSH, O. C.

1868. Observations on the metamorphosis of Siredon into Amblystoma. Amer. Journ. Sci. Arts, (2), 46, Nov. 1868, pp. 364-374, 1 pl.

Mentions *Siredon mexicanus*.

- 1869a. Observations on the metamorphosis of Siredon into Amblystoma. Zoologist, (2), 4, 1869, pp. 1569-1580.

- 1869b. Observations on the metamorphosis of Siredon into Amblystoma. Proc. Boston Soc. Nat. Hist., 12, 1868-1869 (1869) pp. 97-98.

- 1869c. Siredon, a larval Salamander. (Abstr.) Amer. Nat., 2, 1869, p. 493.

MARTÍN DEL CAMPO, RAFAEL.

1932. *Dermophis mexicanus* (Dum. et Bibr.) (Apendice to "Nota acerca de la histologia de la piel de *Dermophis mexicanus* Dum. y Bibr." by L. Ochoterena.) Anal. Inst. Biol., 3, No. 4, 1932, pp. 369-370.

A description and synonymy of *Dermophis mexicanus*.

1934. El organo de Bidder en *Bufo marinus* L. Anal. Inst. Biol. 5, No. 1, 1934, pp. 49-54, text figs. 1-4.

- 1936a. Contribuciones al conocimiento de la fauna de Actopan, Hgo. IV. Vertebrados observados en la epoca de las secas. Anal. Inst. Biol., 7, Nos. 2-3, 1936, pp. 271-286, figs. 1-7.

Amblystoma tigrinum, *Scaphiopus hammondi multiplicatus*, *Bufo sinus*, *Hyla arenicolor*, *Rana montezumae* and *R. pipiens*.

1936b. Los batracios y reptiles segun los codices y relatos de los antiguos mexicanos. Anal. Inst. Biol., 7, 1936, pp. 489-512, figs. 1-18.

1937. Contribucion al conocimiento de los batracios y reptiles del valle del Mezquital, Hgo. Anal. Inst. Biol., 8, No. 1-2, 1937, pp. 259-266, figs. 1-5.

Amblystoma tigrinum, *Oedipus bellii*, *Scaphiopus hammondi multiplicatus*, *Bufo simus*, *Hyla arenicolor*, *H. eximia*, *Rana montezumae* and *R. verde*.

1940a. Los Vertebrados de Pátzcuaro. Anal. Inst. Biol., 11, No. 2, 1940, pp. 481-492.

Lists *Oedipus bellii*, *Bathysiredon dumerili*, *Hyla eximia* and *Rana pipiens*.

1940b. Nota acerca de algunos vertebrados de las lagunas de Cempoala y sus alrededores. Anal. Inst. Biol., 11, No. 2, 1940, pp. 741-743, 1 fig.

Lists *Rhyacosiredon altamirani*, *Hyla lafrentzi*, and *Rana pipiens*.

1940c. Una observacion del desarrollo de *Tomodactylus nitidus*. Anal. Inst. Biol., 11, No. 2, 1940, pp. 745-746, 1 fig.

1941. Ensayo de interpretacion del libro undécimo de la historia general de las cosas de Nueva España, de Fray Bernardino Sahagun III. Los Mamiferos. Anal. Inst. Biol. 12, 1941, pp. 489-506.

A few amphibians mentioned.

1942a. Relacion de algunos peces anfibios y reptiles de Mazatlán, Sin. Anal. Inst. Biol., 12, (2) 1942, pp. 759-761.

1942b. Anfíbios, Reptiles y Aves de la región de Haujuapan de León, Oax, Anal. Inst. Biol. Mexico, XIII, No. 1, 1942, pp. 351-355.

A few amphibians mentioned.

MARTÍNEZ GRACIADA, MANUEL.

1891. Catálogos de la flora y la fauna del Estado de Oaxaca. Emp. del Estado. 1891 pp. 1-84 (Batracios 83-84).

A number of species listed.

MEARNS, EDGAR ALEXANDER.

1907. Mammals of the Mexican Boundary of the United States. U. S. Nat. Mus. Bull. No. 56, pt. 1, 1907, pp. xv + 530, figs. 1-126, pls. 1-13.

Mentions some amphibians of the Mexican boundary.

MEIER, HERMANN.

1872. Der Axolotl. Natur. (Ule und Müller), 21, Bd. 1872, pp. 244-246.

MERREM, BLASIUS.

1820. Versuch eines Systema der Amphibien. Tentamen systematis amphibiorum. Marburg, pp. xv+191, 1 pl.

MERTENS, ROBERT.

1930. Bemerkungen über die von Herrn Dr. K. Lafrentz in Mexiko gesammelten Amphibien und Reptilien. (In) "Beiträge zur Herpetologie Mexikos." Abh. Ber. Mus. Natur. Heimatk. Naturw. Ver. Magdeburg, 6, No. 2, 1930, pp. 153-161, 3 text figs.

Original description of *Gymnopsis multiplicata oaxacae*. Also discusses *Bufo compactilis*, *Eleutherodactylus rugulosus*, *Hyla eximia*, *H. lafrentzi*, *H. sumichrasti*, *Rana pipiens*, and *R. montezumae*.

MERTENS, ROBERT, and WOLTERSTORFF, WILLY.

1929. Ein neuer Laubfrosch aus Mexiko. Zool. Anz. 84, No. 9-10, Aug. 25, 1929, pp. 235-241.

Hyla lafrentzi is described, from Desierto de los Leones, Mexico, México.

MEYER, R.

1865. Fortpflanzung der Kolbenmouche aus Mexiko (Axolotl) in Paris. Zool. Garten, 6, 1865, pp. 352-353, and 7, 1866, p. 155.

1876. Ueber Fortpflanzung der Amblystomen im pariser Museum. Zool. Garten, 17, 1876, pp. 380-381.

MILLER, LOYE, and MILLER, ALDEN.

1936. The northward occurrence of *Bufo californicus* in California. Copeia, No. 3, Nov. 15, 1936, p. 176.

MIVART, ST. GEORGE.

1887. On the axial skeleton of Urodela. Proc. Zool. Soc. London, Apr. 28, 1887, pp. 260-278, several figs.

Mentions some points on the skeleton of the Mexican Axolotl.

MOCQUARD, M. F.

1899a. Reptiles et batraciens recueillis au Mexique par M. León Diguët en 1896 et 1897. Bull. Soc. Philom. Paris. (9), 1, No. 4, 1898-1899 (1899) pp. 154-169, pl. 1.

Describes as new *Rana trilobata*, *Hyla rudis* and *Hyliola Diguëti*. The following are discussed: *Rana lecontei*, *R. montezumae*, *Hypopachus variolosus*, *Hylodes augusti*, *Leptodactylus caliginosus*, *Hyliola Bocourti*, *Hyliola eximia*, *Hyliola staufferi*, *Bufo marinus*, *B. compactilis*, *B. alvarius*, *Scaphiopus dugesi*.

1899b. Contribution a la faune herpétologique de la Basse California. Nouv. Arch. Mus. Hist. Nat. Paris, (4) 1, 1899, pp. 297-343, pls. 11-13.

The following are mentioned or discussed: *Hyla regilla*, *H. plicata*, *H. staufferi*, *H. eximia*, *H. baudinii*, *H. venulosa*, *H. arenicolor*, *H. nigropunctata*, *Agalychnis callidryas*, *Tripurion petasatus*, *Bufo coccifer*?, *Scaphiopus couchii*. Describes the genus *Hyliola* and refers *bocourti*, *Hyla staufferi*, *Hyla plicata*, and *Hyla regilla* to it.

MOHR, JOHN LUTHER.

1941. Protozoanias parásitos de cincuenta *Hyla eximia* Baird, capturadas en Coyoacan, D. F., Mexico. Rev. Soc. Mex. Hist. Nat. 2 (4), pp. 261-266.

MOORE, JOHN ALEXANDER.

1944. Geographic variation in *Rana pipiens* Schreber of eastern North America. Bull. AMNH 82 (8), pp. 345-370, text figs. 1-3, pls. 61-66, tables 1-5.

MOORE, PERCY J.

1900. Post larval changes in the vertebral articulations of *Spelerpes* and other salamanders. Proc. Acad. Nat. Sci. Philadelphia, 1900, pp. 613-622.

The vertebrae of *Oedipus variegatus* and *Spelerpes bellii* are discussed.

MULAIK, STANLEY.

1937. Notes on *Leptodactylus labialis* (Cope). Copeia 1, pp. 72-73, fig.

MULAIK, STANLEY, and SALLBERGER, DWIGHT.

1938. Notes on the eggs and habits of *Hypopachus cuneus* Cope. Copeia 2, p. 90.

MÜLLER, F.

1878. Katalog der im Museum und Universitätskabinet zu Basel aufgestellten Amphibien und Reptilien nebst Anmerkungen. Verh. Naturf. Ges. Basel, 6, 1878, pp. 561-709, pls. 1-3.

Siredon pisciformis and *Spelerpes variegatus* are listed.

1885. Vierter Nachtrag zum Katalog der herpetologischen Sammlung des Basler Museums. Verh. Naturf. Ges. Basel, 7, No. 3, 1885, pp. 668-717, pls. 9-11.

Lists *Leptodactylus caliginosus* from Presidio bei Mazatlan.

MÜLLER, J. W. von.

1865. Beiträge zur Geschichte, Statistik und Reisen in den Vereinigten Staaten, Canada und Mexiko. Vols. 1-3, 1865. (Zoologie von Mexico, Amphibien), Vol. 3, pp. 595-620.

Rana adrita is described as new by Troschel. 37 other species of Salientia are listed, 7 Caudata, and 1 Apoda. Whether this actually is a list of specimens collected or merely a compilation is not evident. The list is especially untrustworthy.

MYERS, GEORGE S.

1942. Notes on Pacific coast *Triturus*. Copeia, No. 2, July 10, 1942, pp. 77-82.

Deals with *Triturus torosus*.

NICHOLLS, GEORGE E.

1916. The structure of the vertebral column in the Anura Phaneroglossa and its importance as a basis of classification. Proc. Linn. Soc. London, 128 (1915-1916), pp. 80-92, figs. A-D.

NIEDEN, FRITZ.

1913. Gymnophiona (Amphibia Apodo). Das Tierreich, Lief. 37, 1913, pp. x + 31.

Mexican species described.

1923. Anura I. Subordo Aglossa und Phaneroglossa, Sectio. 1, Arcifera. Das Tierreich, Lief. 46, 1923, pp. xxxii + 584.

Mexican species described.

1926. Anura II. Engystomatidae. Das Tierreich, Lief. 49, 1926, pp. xvi + 110.

Mexican species described.

NOBLE, G. K.

1918. The amphibians collected by the American Museum Expedition to Nicaragua in 1916. Bull. Amer. Mus. Nat. Hist., 38, Art. 10, June 20, 1918, pp. 311-347, pls. 14-19, figs. 1-6.

1921. The anterior cranial elements of *Oedipus* and certain other salamanders. Bull. Amer. Mus. Nat. Hist. 44, Art. 1, March 18, 1921, pp. 1-6, pls. 1-2.

The skull of *Spelerpes leprosus* is figured.

1922. The phylogeny of the Salientia I. The osteology and the thigh musculature; their bearing on classification and phylogeny. Bull. Amer. Mus. Nat. Hist., 46, 1922, pp. 1-87, pls. 1-23.

1924. Some neotropical batrachians preserved in the United States National Museum with a note on the secondary sexual characters of these and other amphibians. Proc. Biol. Soc. Washington, 37, Feb. 21, 1924, pp. 65-71.

Refers *Hyla fleischmanni* to *Centrolenella*.

1925. An outline of the relation of ontogeny to phylogeny within the amphibia II. Amer. Mus. Nov., No. 166, 1925, pp. 1-10.

- 1927a. The value of life history data in the study of the evolution of the amphibia. Ann. New York Acad. Sci., 30, Oct. 31, 1927, pp. 31-128, pl. 9.

1927b. The plethodontid salamanders; some aspects of their evolution. Amer. Mus. Nov., No. 249, 1927, pp. 1-26, figs. 1-10.

1931. The Biology of the Amphibia. McGraw-Hill, New York, 1931, pp. xiii-577, figs. 1-174.

Refers to certain Mexican species.

OCHOTERENA, ISAAC.

1932. Nota acerca de la histología de la piel de *Dermophis mexicanus* Dum. y Bibr. Anal. Inst. Biol., 3, No. 4, 1932, pp. 363-369, text figs. 1-9.

OLIVER, JAMES A.

1937. Notes on a collection of amphibians and reptiles from the state of Colima, Mexico. Occ. Papers Mus. Zool., Univ. Michigan, No. 360, Nov. 20, 1937, pp. 1-28, pl. 1, text fig. 1.

Discusses *Bufo marinus*, *B. marmoratus*, *B. simus*, *Leptodactylus melanonotus*, *Eleutherodactylus mexicanus*, *Pternohyla fodiens*, *Agalychnis dacnicolor*, *Hyla baudinii*, *H. smithii*, *H. venulosa*, *Hypopachus oxyrhinus*, *Microhyla usta*, *Rana pipiens*, and *R. pustulosa*.

ORTON, GRACE.

1943. The tadpole of *Rhinophrynus dorsalis*. Occ. Pap. Mus. Zool. Univ. Mich., 472, pp. 1-3, pl. 1.

OSBORNE, HENRY LESLIE.

1900. A remarkable axolotl from North Dakota. American Naturalist, 34, No. 403, July 1900, pp. 551-562, figs. 1-4.

1901. On some points in the anatomy of a collection of axolotls from Colorado, and a specimen from North Dakota. American Naturalist, 35, No. 419, Nov. 1901, pp. 887-902, figs. 1-6.

Mentions the Mexican axolotl.

OWEN, RICHARD.

1844. Characters of a new species of Axolotl. Ann. Mag. Nat. Hist., 15, No. 88, July, 1844, p. 23, 1 fig.

Axolotes a generic designation said to have been used by Cuvier first. *Axolotes guttatus* given as a new name for *Siredon mexicanus*; *Axolotes maculata* a new species described from "In Mexico, in fluviis Sierra Madre, Chihuahua, lat. 26° 6' N., long. 106° 50' W."

PANCERI, PAOLO.

1867. Gli axolotl recati per la prima volta in Napoli. Nuov. Cimento., 27, 1867, pp. 326-328.

1868. Gli axolotl recati per la prima volta in Napoli. Rendic. Accad. Sci. fis. Mat. Napoli 7, 1868, pp. 50-51.

1869. Intorno agli Axolotl cresciuti nell'Orto Botanico. Rendic. Accad. Sci. fis. Mat. Napoli. 8, 1869, pp. 147-148, 167-168.

PARKER, H. W.

1927. A revision of the frogs of the genera *Pseudopaludicola*, *Physalaemus*, and *Pleurodema*. Ann. Mag. Nat. Hist., (9), 20, No. 113, Oct. 1927, pp. 450-478.

Discusses *Pleurodema mexicana* (= *Eleutherodactylus mexicanus*) Brocchi and *Paludicola (Lüperus) nitidus*. Of the first, he states "—referred to this genus (*Pleurodema*) rather than to *Physalaemus* on account of the absence of any tarsal tubercle; its real position is still uncertain."

1934. A monograph of the frogs of the family Microhylidae. London, 1934, pp. viii + 208, figs. 1-67.

Mexican forms discussed: *Hypopachus oxyrhinus*, *Microhyla elegans* and *M. usta*.

PESTALOZZI, EMIL.

1878. Beitrag zur Kenntniss des Verdauungskanaals von Siren pisciformis. Verh. Phys.-medic. Ges. Würzburg, N. F., 12, 1878, pp. 83-102.

PETERS, W.

1863. Bemerkungen mit über verschiedene Batrachier, namentlich über die Original-Exemplare der von Schneider und Wiegmann beschriebenen Arten des zoologischen Museums zu Berlin. Monatsb. Akad. Wiss. Berlin, 16, Feb. 1863, pp. 76-83.

Comments on *Bufo compactilis*, *B. horribilis*, *B. valliceps*, *B. cristatus* and *B. marmoreus*.

1869. Eine Mittheilung über mexicanische Amphibien, welche Hr. Berkenbusch in Puebla auf Veranlassung des Hrn. Legationsraths von Schlozer dem zoologischen Museum gesandt hat. Monatsb. Akad. Wiss. Berlin, Dec. 1869, pp. 874-881.

Liuperus nitidus, *Hylodes Berkenbuschii* and *Hyla microtis* are described as new. *Rana halecina*, *R. montezumae*, *Hyla eximia*, *Bufo compactilis* and *Engystoma mexicanum* are discussed or listed.

- 1871a. Ueber neue Amphibien (*Hemidactylus*, *Urosaura*, *Tropidolepisma*, *Geophis*, *Uriechis*, *Scaphiopus*, *Hoplocephalus*, *Rana*, *Entomoglossus*, *Cystignathus*, *Hylodes*, *Arthroleptis*, *Phyllobates*, *Cephomantis*), des Königl. Zoologischen Museums. Monatsb. Preuss. Akad. Wiss. Berlin, 1870 (1871), pp. 641-652, pls. 1-2.

- 1871b. Ueber einige Arten der heretologischen Sammlung des Berliner zoologischen Museums. Monatsb. Akad. Wiss. Berlin, 1871, pp. 644-652.

States that *Hyla microtis* Peters = *Hyla miotympanum* Cope.

- 1879a. Eine Mittheilung über neue Amphibien des Kgl. Zoologischen Museum (*Euprepes*, *Acontias*, *Typhlops*, *Zamenis*, *Spilotes*, *Oedipus*). Monatsb. Akad. Wiss. Berlin, Aug. 1879, pp. 774-779, pl. 1.

Spelerpes (*Oedipus*) *infuscatus* described from Haiti. Probably referable to a Mexican form.

- 1879b. Ueber die Eintheilung der Caecilien und ins besondere über die Gattungen *Rhinatrema* und *Gymnopsis*. Monatsb. Akad. Wiss. Berlin, Nov. 24, 1879, pp. 924-943, 1 pl.

Comments on *Dermophis mexicanus* and *Gymnopsis multiplicata* (from Veragua).

1882. Neue Art der urodelen Batrachier, *Spelerpes* (*Oedipus*) *yucatanus*, n. sp., aus Yucatan (Central America). Sitz. Ges. naturf. Fr. Berlin, Nov. 21, 1882, pp. 137-138.

PHILIPPEAUX, J. M.

- 1867a. Sur la régénération des membres chez l'axolotl (*Siren pisciformis*). Compt. Rend., 64, 1867, pp. 1204-1205.

- 1867b. On the regeneration of the limbs in the Axolotl (*Siren pisciformis*). Ann. Mag. Nat. Hist., (3), 20, 1867, p. 149.

- 1867c. Sur la régénération des membres chez l'axolotl (*Siren pisciformis*). Ann. Sci. Nat., Zool., Ser. 5, 7, 1867, p. 238.

- 1871 Expérience montrant l'influence et la température sur la rapidité du développement des Axolotls. Arch. de Physiol., 4, 1871-72 (1871), p. 93.
- PLATT, JEAN.
1934. The systematic status of *Eleutherodaetylus latrans* (Cope). Amer. Mid. Nat., 15, No. 1, 1934, pp. 89-91.
- POUCHET, GEORG.
1872. (Développement des leucocytes chez les embryons d'axolotls.) Compt. Rend. et Mém. Soc. Biol. Paris, (5), 2, 1870 (1872) (Compt. Rend.), p. 59.
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- PROCTOR, JOAN B.
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1881-

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This is a translation from the French article, translated by D. Manuel Urbina. There is an "Adicion a la memoria anterior."

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- 1937b. New species of hyloid frogs from Mexico with comments on the rare *Hyla bistincta* Cope. *Proc. Biol. Soc. Washington*, 50, Apr. 21, 1937, pp. 43-54, pls. 2-3.

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The following species are reported from Sonora: *Scaphiopus couchii*, *Bufo alvarius*, *B. punctatus*, *Hyla arenicolor*, *Rana pipiens*, *Pternohyla fodiens*, *Microhyla olivacea*, *Bufo woodhousii*, *B. marinus* and *B. compactilis*.

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Discusses *Scaphiopus couchii*, *Bufo marinus*, *B. punctatus*, *B. valliceps*, *Leptodactylus occidentalis*, *Pternohyla fodiens*, *Diaglena spatulata*, *Agalychnis dacnicolor*, *Hyla baudinii*, *H. smithi*, *Microhyla olivacea*, *Rana pipiens*. The toad *Bufo kelloggi* is described as new.

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Type descriptions of *Hyla rickardsi*, *H. arborescendens*, *Eleuthero-dactylus cactorum*, *E. natator*, *Rana sierramadrensis*. All species are figured.

- 1939c. Frogs of the *Hyla eximia* group in Mexico, with descriptions of two new species. *Univ. Kansas Sci. Bull.*, 25, No. 19, 1938 (July 10, 1939), pp. 421-445, pls. 46-48.

Type descriptions of *Hyla cardenasi*, *Hyla wrightorum*, *Hyla eximia*, *Hyla euphorbiacea*, *Hyla lafrentzi* and *Hyla regilla* are listed or discussed. Figures are given of most of the species.

- 1939d. A new bromeliad frog. *Copeia*, No. 2, July 12, 1939, pp. 97-100, fig. 1. *Hyla bromeliana* is described and figured.

- 1940a. A new eleutherodactylid frog from Mexico. Proc. New England Zool. Club, 18, Jan. 24, 1940, pp. 13-16, pls. 1-2.

Type description of *Eleutherodactylus batrachylus* from Miquihuana, Tamaulipas, México.

- 1940b. A new *Rhyacosiredon* (Caudata) from western Mexico. Herpetologica, 1, No. 1, Jan. 29, 1940, pp. 171-176, pl. 17.

Rhyacosiredon rivularis is described as new. This and *Rhyacosiredon altamirani* are figured.

- 1940c. A new bromeliad frog from northwestern Michoacan. Copeia, No. 1, Mar. 30, 1940, pp. 18-20, fig. 1.

Hyla smaragdina is described and figured.

- 1940d. Two new anuran amphibians from Mexico. Proc. U. S. Nat. Mus., 89, No. 3093, 1940, pp. 43-47, pls. 1-3.

Describes *Syrrophus smithi*, *Hyla dendroscarta*. Both species are figured, including the tadpoles of the latter.

- 1940e. A new *Syrrophus* from Guerrero, Mexico. Proc. Biol. Soc. Washington, 53, Oct. 7, 1940, pp. 95-98, pl. 1.

Syrrophus pipilans is described and figured.

- 1940f. New species of Mexican anura. Univ. Kansas Sci. Bull., 26, No. 11, 1940 (Nov. 27), pp. 385-405, pls. 43-44, text figs. 1-8.

Type descriptions of *Hyla hazelae*, *Hyla robustofemora*, *Hyla robertsoni*, *Syrrophus latodactylus* and *Eleutherodactylus vocalis* appear.

- 1940g. New salamanders from Mexico with a discussion of certain known forms. Univ. Kansas Sci. Bull., 26, No. 12, 1940 (Nov. 27), pp. 407-439, pls. 45-48, text figs. 1-5.

Contains type descriptions of the following species: *Bolitoglossa dimidiata*, *Thorius pulmonaris*, *Thorius narisovalis*, *Ambystoma bombycella*, *Ambystoma amblycephala*, *Ambystoma ordinaria* and *Siredon lermaensis*. All are figured. The following are mentioned or discussed: *Thorius pennatulius* (= *Thorius troglodytes* and *Thorius dubitus*), *Siredon mexicana* and *Siredon dumerelli*.

- 1940h. Herpetological miscellany No. I. Univ. Kansas Sci. Bull., 26, No. 15, 1940 (Nov. 27), pp. 489-571, pls. 53-63, text figs. 1-7.

Type descriptions of *Bufo gemmifer*, *Bufo mazatlanensis*, *Tomodactylus angustidigitum*, *Tomodactylus macrotympanum*, *Microbatrachylus* new genus, *Microbatrachylus albolabris*, *Microbatrachylus oaxacae*, *Microtrachylus minimus*, *Hyla melanomma*, *Hyla forbesi*, *Hypopachus cuneus nigroreticulatus*, *Hypopachus ovis*, *Hypopachus alboventer*, *Hypopachus maculatus* and *Hypopachus caprimimus*. The following species are discussed: *Microbatrachylus pygmaeus*, *M. hobartsmithi*, *Hyla arborescens*, *H. erythronna*, *Hypopachus* (genus), *Hypopachus cuneus cuneus*, *Microhyla elegans*, *M. olivacea*. The new species and certain of the others are figured.

- 1940i. A new frog from the Tarahumara Mountains of Mexico. Copeia, Dec. 27, 1940, No. 4, pp. 250-253, fig. 1.

Type description of *Eleutherodactylus tarahumaraensis* from Mojarachic, Chihuahua, México.

- 1941a. New plethodont salamanders from Mexico. Herpetologica, 2, No. 3, Mar. 25, 1941, pp. 57-65, figs. 1-5.

Contains type descriptions of *Bolitoglossa unguidentis* from Cerro San Felipe, Oaxaca, and *Bolitoglossa arborea* from near Tianguistengo, Hidalgo. The premaxillary teeth of *Bolitoglossa smithi* are figured.

Eleutherodactylus sp. (= *E. hidalgoensis*), *Syrhophus latodactylus*, *Tomodactylus macrotympanum* are mentioned or discussed. Figures are given of *Eleutherodactylus occidentalis*, *E. saltator*, *E. calcitrans*, the new species, and the various species of *Thorius*.

- 1941e. New amphibians from the Hobart M. Smith Mexican collections. Univ. Kansas Sci. Bull., 27, pt. 1, No. 8, Dec. 15, 1941, pp. 141-167, pls. 7-11, text fig. 1.

Type descriptions are given of *Bolitoglossa nigromaculata*, *Bolitoglossa occidentalis*, *Bolitoglossa xolocaltcae*, *Bolitoglossa nigroflavescens*, *Eleutherodactylus dorsoconcolor*, *Eleutherodactylus matudai*. All of the species are figured.

- 1942a. Tadpoles of Mexican anura. Univ. Kansas Sci. Bull., 28, pt. 1, No. 3, May 15, 1942, pp. 37-55, pls. 1-3.

Tadpoles of Genus sp.?, *Plectrohyla matudai*, *Agalychnis dacnicolor*, *A. callidryas* (eggs), *Scaphiopus multiplicatus*, *Rana pustulosus*, *R. montezumae*, *Hypopachus caprimimus*, *H. alboventer*.

- 1942b. The frog genus *Diaglena*, with a description of a new species. Univ. Kansas Sci. Bull., 28, pt. 1, No. 4, May 15, 1942, pp. 57-65, pls. 4-5.

Type description of *Diaglena reticulata* with a discussion of the genus and of *Diaglena spatulata*.

- 1942c. New tailless amphibia from Mexico. Univ. Kansas Sci. Bull., 28, pt. 1, No. 5, May 15, 1942, pp. 67-89, pls. 6-9.

Type descriptions of the following appear: *Microbatrachylus montanus*, *M. imitator*, *Eleutherodactylus macdougalli*, *Centrolenella viridissima*, *Hyla rozellae*. Discussions of specimens of the following: *Eleutherodactylus mexicanus*, *Centrolenella fleischmanni*, *Hyla leucophyllata*, and *Hyla phaeota*. Most of the species are figured.

- 1942d. New Caudata and Salientia from Mexico. Univ. Kansas Sci. Bull., 28, pt. 2, No. 14, November 15, 1942, pp. 295-323, pls. 25-29.

The following new species are described: *Syrhophus modestus* from Paso del Río, Colima, *Hyla beltrani*, Tapachula, Chiapas, *Eleutherodactylus bolivari*, Ixtapan del Oro, México, *Eleutherodactylus decoratus*, Bandería, Veracruz, *Eleutherodactylus hidalgoensis*, near Tianguistengo, Hidalgo.

- 1943a. A new *Hylella* from Mexico. Proc. Biol. Soc. Washington 56, pp. 49-52. *Hylella azteca* described.

- 1943b. A new ambystomid salamander adapted to brackish water. Copeia 3, pp. 151-156, figs. 1-3.

Ambystoma subsalsum described.

- 1943c. Herpetological novelties from Mexico. Univ. Kansas Sci. Bull., 29 (2), pp. 343-361, pls. 26-27.

Bolitoglossa cochranæ, *Rhyacosiredon leoræ*, *Bufo perplexus*, *Bufo nayaritensis*, *Tomodactylus albolabris*, *Syrhophus nebulosus* and *Microhyla mazatlanensis* are described.

- 1944a. A new genus and species of Mexican hylid frogs. Univ. Kansas Sci. Bull., 30 (1) (3), pp. 41-45.

Ptychohyla adipoventris described.

- 1944b. A new ambystomid salamander from the plateau region of Mexico. Univ. Kansas Sci. Bull., 30 (1) (5), pp. 57-61, pl. 8.

Ambystoma granulosum described.

- 1944c. The hylid genus *Acrodytes*, with comments on Mexican forms. Univ. Kansas Sci. Bull., 30 (1) (6), pp. 63-69, pl. 9.

Acrodytes inflata described.

- 1944d. Present location of certain herpetological and other type specimens. Univ. Kansas Sci. Bull., 30 (1) (11), pp. 117-187.
- 1944e. The genera of plethodont salamanders in Mexico, Pt. I. Univ. Kansas Sci. Bull., 30 (1) (12), pp. 189-232, pls. 12-15, figs. 1-2. Defines the new genera *Chiropterotriton*, *Pseudoeurycea Parvimolge* and *Magnadigila*.
- TAYLOR, EDWARD H. and KNOBLOCH, IRVING W.
1940. Report on an herpetological collection from the Sierra Madre Mountains of Chihuahua. Proc. Biol. Soc. Washington, 53, Oct. 7, 1940, pp. 125-130.
Lists *Bufo simus*, *Hyla arenicolor* and *Rana pipiens*. Mentions *Ambystoma* larvae.
- TAYLOR, EDWARD H. and SMITH, HOBART M.
1945. Summary of the collections of amphibians made in Mexico under the Walter Rathbone Bacon Traveling Scholarship. Proc. U. S. Nat. Mus. 95 (3185), pp. 521-613, pls. 18-32, figs. 58-61.
One hundred forty-six species discussed. Eight new forms are described: *Rhyacosiredon zempoalaensis*, *Ambystoma lacustris*, *Bolitoglossa cephalica rubrimembris*, *Bufo angustipes*, *Eleutherodactylus conspicuus*, *Eleutherodactylus avocalis*, *Syrrophus rubrimaculatus* and *Acrodytes modesta*.
- TAYLOR, EDWARD H. and WRIGHT, JOHN SUAREZ.
1932. The toad *Bufo marinus* (Linnaeus) in Texas. Univ. Kansas Sci. Bull., 20, No. 12, 1932 (Oct. 1), pp. 247-249.
Bufo marinus mentioned in México.
- TEGETMEIER, WILLIAM BERNHARD.
1870. (Exhibition of living specimens of the Axolotl.) Proc. Zool. Soc. London, 1870, pp. 160-161, figs. 1-2.
An axolotl and a transformed specimen are figured, purporting to be *Siredon mexicanus*.
- TERRON, CARLOS CUESTA.
1921. Datos para una Monographia de la fauna Erpetologica de la península de la Baja California. Mem. Soc. Cien. Antonio Alzate, Tomo 39, pp. 161-171.
Numerous species listed.
1930. La *Hyla eximia* Baird. Anales del Inst. de Biología, I, (2), pp. 47-50, figs. 1-4.
- TEST, FREDERICK CLEVELAND.
1898. A contribution to the knowledge of the variations of the tree frog *Hyla regilla*. Proc. U. S. Nat. Mus., 21, No. 1156, 1898, pp. 477-492, pl. 39.
Hyla curta and *Hyla regilla laticeps* are placed in the synonymy of *Hyla regilla*.
- TEVIS, LLOYD.
1944. Herpetological notes from Lower California. Copeia, 1, pp. 6-18, figs. 1-2.
- TÖRÖK, AURÉL.
1872. A mexikoi Proteus vagy Axolotl. Természet. 4 évf. 1872, 18sz., pp. 186-191.

- 1877a. Dolgazatok a klozsvari t. egyetem élet-szövetani intézetéből. II. Szövetalakulasok a Siredon pisciformis. Sejteiben. Adat az állati szerveset szövetfejlődéséhez. Erdél. Museum Egylet. Evkönyv. Uj Folyam. II. Köt. 5, szám. 1877, pp. 144-170 (with a German abstract).
- 1877b. überblick des ungarischen Textes über formative Diggerenzirungen in den Embryonalzellen von Siredon pisciformis. *ibid.* pp. 171-172.
- 1877c. über formative Differenzirungen in den Embryonalzellen von *Siredon pisciformis*. Ein Beitrag zur Histiogenese des Tierorganismus. Arch. Mikr. Anat., 13, 1877, pp. 756-783.
- TSCHUDI, JOHANN JACOB VON.
1839. Classification der Batrachier mit Berücksichtigung der fossilen Thiere dieser Abtheilung. Mem. Soc. Sci. Nat. Neuchâtel, 2, 1839, pp. 1-100.
- TWITTY, VICTOR CHANDLER.
1941. Data on the life history of *Ambystoma tigrinum californiense* Gray. Copeia, No. 1, Mar. 25, 1941, pp. 1-4.
States that *Ambystoma tigrinum californiense* has been artificially hybridized with *S. mexicanum*.
1942. The species of Californian Triturus. Copeia, No. 2, July 10, 1942, pp. 65-76, pls. 1-5.
- TWITTY, VICTOR C., and ELLIOT, H. A.
1934. The relative growth of the amphibian eye, studied by means of transplantation. Journ. Exper. Zool., 68, 1934, pp. 247-291, 22 text figs.
Siredon mexicanum mentioned.
- VALLIANT, L.
1876. Sur la ponte des Axolotls transformés. Bull. Soc. Philom. Paris, 1876, pp. 13-15.
- VAN DENBURGH, JOHN.
- 1896a. A review of the herpetology of Lower California, Part II, Batrachians. Proc. California Acad. Sci. (2), 5, 1895 (Jan. 15, 1896), pp. 556-561.
The following species are listed: *Hyla regilla*, *H. curta*, *Scaphiopus couchii*, *Bufo punctatus*, *Batrachoseps attenuatus* and *Plethodon croceator*.
- 1896b. Additional notes on the herpetology of Lower California. Proc. Calif. Acad. Sci., (2), 5, 1896, pp. 1004-1008.
1905. The reptiles and amphibians of the islands of the Pacific Coast of North America from the Farallons to Cape San Lucas and the Revilla Gigedos. Proc. California Acad. Sci. (3), Zool. 4, No. 1, June 13, 1905, pp. 1-40, pls. 1-8.
Hyla regilla is reported from Cedros Island, Baja California.
- VAN DENBURGH, JOHN, and SLEVIN, JOSEPH R.
1914. Reptiles and amphibians of the islands of the west coast of North America. Proc. California Acad. Sci., (4), 4, Dec. 30, 1914, pp. 129-152.
Lists *Batrachoseps attenuatus* and *Autodax lugubris* from Los Coronados Islands; and *Hyla regilla* from Cedros Island.
1921. A list of the amphibians and reptiles of the peninsula of Lower California, with notes on the species in the collection of the Academy. Proc. California Acad. Sci., (4), 11, No. 4, July 8, 1921, pp. 49-72.
The following species are listed or discussed: *Batrachoseps attenuatus*, *Plethodon croceator* (*Aneides lugubris lugubris*), *Scaphiopus couchii*, *Bufo boreas halophilus*, *B. punctatus*, *Hyla regilla*, *H. arenicolor*, and *Rana draytoni*.

VELASCO, ALFONSO LUIS.

1894. Geografía y estadística del estado de Zacatecas. Geograf. Estadist. Republica Mexicana, Vol. 15 (Mexico), 1894, pp. 1-324.

Lists *Rana halcina*, *Scaphiopus Holbrookii*, *Hyla eximia*, *Hyla versicolor*, *Hylodes laticeps*, *Bufo aqua*, *B. anomalus*, *B. intermedius*, *B. Chilensis*.

VELASCO, JOSÉ MARIA.

1879. Description metamorphosis y costumbres de una especie nueva del genero *Siredon*. La Naturaleza, 4, 1879, pp. 209-233, pls. 7-9.

1880. Anotaciones y observaciones al trabajo del Sr. D. A. Weismann sobre la trasformacion del ajolote mexicano en *Amblystoma*. La Naturaleza, 5, Entrega 3, p. 58; Entrega 4, pp. 59-74; Entrega 5, pp. 75-84.

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VETTER, B.

1877. über die Umwandlung des mexicanischen Acolotl in die *Amblystoma*-form. Nach A. Weismann. Sitzber. Ges. Isis Dresden, 1876 (1877), pp. 28-29.

VILLADA, MANUEL M.

1879. Dictámenes acerca del trabajo anterior. La Naturaleza, 4, 1879, pp. 234-236.

Remarks on Velasco's article (1879) on *Siredon tigrina*.

VION, RENE.

1869. Les Axolotls, compte-rendu d'une leçon de M. Aug. Duméril. Bull. Soc. Linn. Nord France, 1, 1866-67 (1869), pp. 421-431.

VULPIAN, A.

1867. Sur la reproduction des membres chez l'axolotl dans le cas de polydactylie acquise. Bull. Soc. Philom. Paris, (6), 4, 1867, p. 117.

WAGLER, JOHAN.

- 1828-1833. Descriptiones et Icones Amphibiorum. 3 parts. 36 plts.; pt. 1, 1828; pt. 2, 1830; pt. 3, 1833.
Siredon axolotl, pl. 20.

1830. Natürliches System der Amphibien mit vorangehender Classification der Säugethiere und Vogel. Ein Beitrag zur vergleichender Zoologie. Munchen, Stuttgart und Tübingen, 1830, pp. 1-354.

WALKER, CHARLES F.

1938. The structure and systematic relationships of the genus *Rhinophrynus*. Occ. Papers Mus. Zool., Univ. Michigan, No. 372, May 25, 1938, pp. 1-11, figs. 1-3.

Believes the genus worthy of family rank.

WEISMANN, DR. AUGUST.

1872. Ueber den Einfluss der Isolirung auf die Artbildung. Leipzig, 1872, pp.

Probably not *Siredon mexicana*.

1875. Ueber die Umwandlung des mexicanischen Axolotl in ein *Amblystoma*. Zeit. wiss. Zool., 25, Heft 3, suppl., 1875, pp. 297-334.

Treats of *Siredon mexicanus*.

1876. Axolotl u. *Amblystoma*. Zool. Garten, 17, 1876, pp. 1-8.

1878. On the change of the Mexican Axolotl to an *Amblystoma*. Ann. Rep. Smithsonian Inst., 1877 (1878), pp. 349-375.

1880. Transformacion del ajolote Mexicano en Amblystoma por el Senor Doctor Augusto Weismann. Traducido del Annual Report of the Smith. Inst., 1877, por el Sr. Miguel Perez. La Naturaleza, 5, Entrega 2, 1880, pp. 31-42; Entrega 3, 1880, pp. 43-57.

WERNER, FRANZ.

- 1894a. Über einige Novitäten der herpetologischen Sammlung des Wiener zoolog. verg. anat. Inst. Zool. Anz. 17, No. 446, May 7, 1894, pp. 155-157.

Type description of *Bufo lateralis* from Tehuantepec.

- 1894b. Bemerkungen über die nord-amerikanischen Rana-Arten. Jahresb. natur. Ver. Magdeburg, 1893 (1894), pp. 123-136.

Rana montezumae, *R. virescens sphenoccephala* are listed from México.

1896. Beiträge zur Kenntniss der Reptilien und Batrachier von Central Amerika und Chile, sowie einiger seltener Schlangarten. Verh. Zool.-bot. Ges. Wien, 46, 1896, pp. 344-365, pl. VI.

Agalychnis moreletti.

1903. Ueber Reptilien und Batrachier aus Guatemala und China in der Zoologischen Staats-Sammlung in München, nebst einem Anhang über seltene Formen aus anderen Gebieten. Abh. Bayer. Akad. 2, 22, 1903, pp. 343-384, pls. & figs.

Describes *Spelerpes doffleini*.

WIEDERSHEIM, R.

1877. Das Kopfskelet der Urodelen, ein Beitrag zur vergleichenden Anatomie des Wirbelthier Schädels. Morph. Jahresb. 3, pp. 352-448, and pp. 459-548, pls. 19-28. Published separately in Leipzig, 1877, pp. 1-187, pl. 9.

Spelerpes sp., perhaps *pennatulus*, pp. 427, 482, 498; pl. 21, fig. 48; pl. 24, fig. 87; and *Spelerpes minimus*, p. 544, Veracruz.

1878. Zur Anatomie des Amblystoma Weismann. Zeit. wiss. Zool., 32, 1878 ?, pp. 216-236, pls. 11-12.

1879. Anatomie der Gymnophionen. 1879, pp.

1880. über die vermehrung des Os centrale im Carpus u. Tarsus des Axolotls. Morf. Jahrb., 6, 1880, pp. 581-583, 1 pl.

WILDER, H. H.

Lungless salamanders. Anat. Anz. 12, pp. 182-192, 7 text figs.

WOLTERSTORFF, WILLY.

1925. Katalog der Amphibien-Sammlung im Museum für Natur und Heimatkunde zu Magdeburg. Erster Teil: Apoda, Caudata. Abh. Ber. Mus. Naturk. Heimat. Natur. Ver. Magdeburg, 4, No. 2, 1925, pp. 231-310.

Reports specimens of "*Amblystoma tigrinum*" from México. These include perhaps several species.

1930. Zur Systematic und Biologie der Urodelen Mexikos. In "Beiträge zur Herpetologie Mexikos." Abh. Ber. Mus. Naturk. Heimat. Natur. Ver. Magdeburg, 6, No. 2, 1930, pp. 129-149, 13 text figs.

Treats of *Amblystoma tigrinum*, *A. tigrinum velascoi* (type description; apparently described twice by two different authors in this work. A correction on page 145 states that the original reference in the Lafrentz article should read "*Amblystoma tigrinum velascoi* Wolt. instead of *Amblystoma tigrinum velascoi*

subsp. nov." *A. mexicanum*, *A. dumerili*, *A. (Rhyacosiredon) altamirani*, *Oedipus belli*, and *Diemyctylus kallerti* (described as new). —

1931. Ueber *Diemyctylus kallerti* Wolt. Zool. Anz. 94 (1/2), pp. 13-17.

WOOD, WALLACE F.

1935. Encounters with the western spadefoot, *Scaphiopus hammondi*, with a note on a few albino larvae. Copeia, No. 2, July 16, 1935, pp. 100-102.

A specimen seen near Ensenada, Baja California.

WOODALL, HAROLD T.

1941. A new Mexican salamander of the genus *Oedipus*. Occ. Papers Mus. Zool., Univ. Michigan, No. 444, July 18, 1941, pp. 1-4.

Oedipus mosaueri is described.

WRIGHT, E. PERCIVAL.

1861. Notes on the anatomy of the alimentary system of the axolotl. Nat. History Review, 1861, pp. 60-67, 1 pl.

YARROW, HENRY CLAY.

1883. Descriptions of new species of reptiles and amphibians in the U. S. National Museum. Proc. U. S. Nat. Mus., 5, 1882 (1883), pp. 438-443.

Original description of *Bufo beldingi*.

1883. Check list of North American reptilia and batrachia, with catalogue of specimens in U. S. National Museum. Bull. U. S. Nat. Mus., No. 24, 1882 (1883) (fide Storer), pp. vi + 1-249.

The following species are listed from México: *Rana halecina berlandieri*, *R. montezumae*, *Scaphiopus couchii*, *S. varius varius*, *Spca multiplicata*, *Hyla arenicolor*, *H. eximia*, *H. regilla*, *H. curta*, *Bufo valliceps*, *B. lentiginosus cognatus*, *B. speciosus*, *B. beldingi*, *B. punctatus*, *B. debilis*, *Amblystoma mavortium* and *Siren lacertina*.

PRINTED BY
FERD VOILAND, JR., STATE PRINTER
TOPEKA, KANSAS
1947



21-6002